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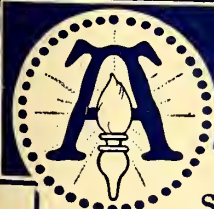
Vol. CI.



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**Allen & Hanburys Ltd., Bethnal Green, London, E.2**





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*"All this," says the Retail Pharmacist, "may be true, and if it is, well so much the better for the shareholders, but where do we come in? Our function seems to be that of laying golden eggs for others, whereas what we are really interested in is the provision of aureate ova for ourselves."*

The production of golden eggs, if they are to prove fertile, is a co-operative one, the duty of May, Roberts being to provide the Retailer with cheap goods in the quickest possible time, so that he may sell them and come back for more, while the sphere of the Pharmacist is to send May, Roberts the necessary orders to work on. Could anything be plainer?

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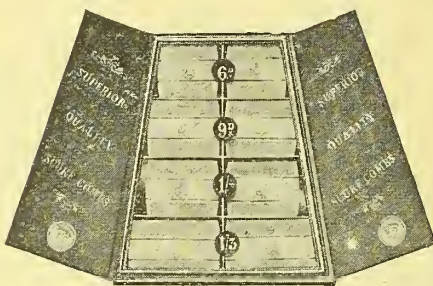
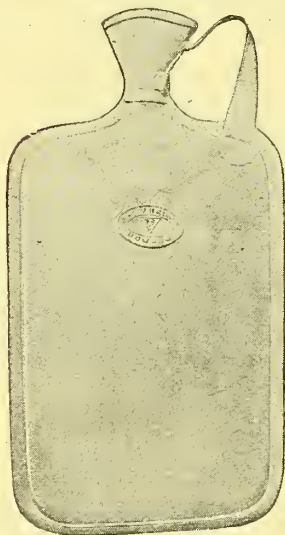
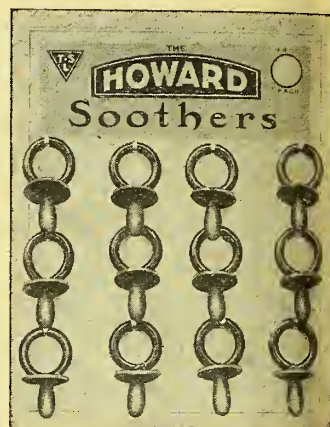
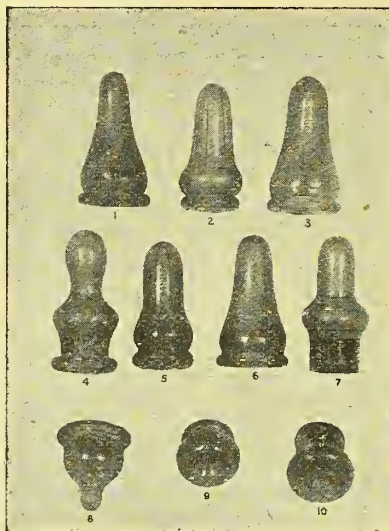


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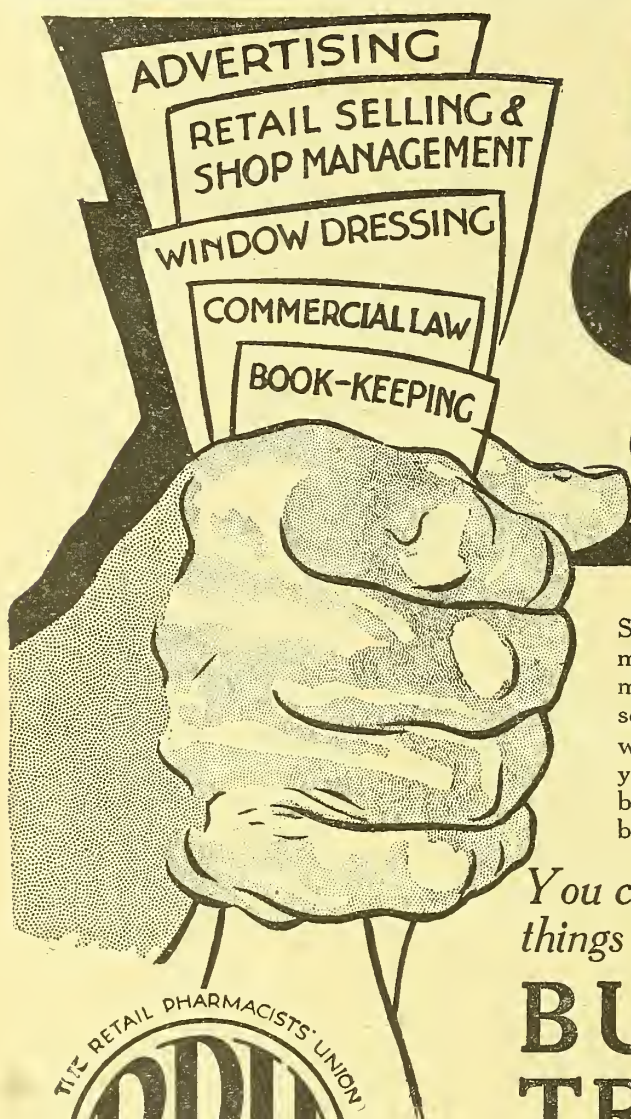
The exceptionally high quality of our products and the service we render in the form of showcards, selling leaflets, original window displays, will profitably increase your business no matter how good you may judge this to be.

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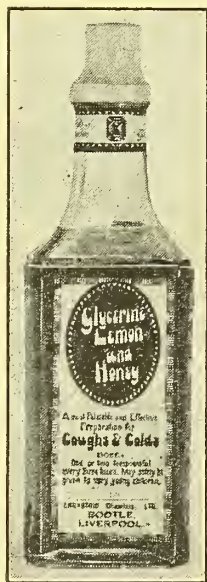
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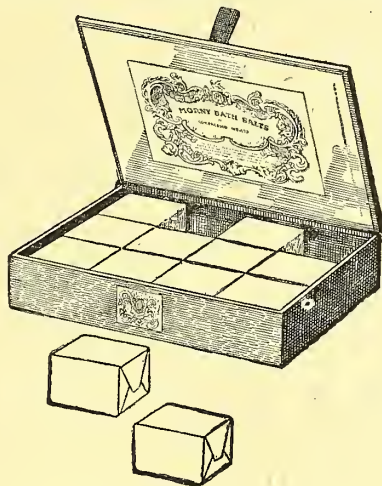
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## PHARMACEUTICAL LINES OF MERIT

We illustrate above four of our series of pharmaceutical preparations. They are all lines of outstanding merit, and you can recommend them to your customers with every confidence.

We are aware that there are some nice labels on the market, some nice bottles and some excellent products, but you will agree with us when we say that you rarely get the three combined. In Moorland products, however, you do. The

product itself, containers, get-up and showmatter are all of the highest quality.

No expense, time or trouble has been spared to make these lines excellent in every way. The frequent repeat orders we daily receive are ample proof that our efforts have met with approval. In addition to those shown, we pack Castor Oil, Glycerine and Rose Water, Olive Oil, Syrup Hypophosph. Co. etc., and will gladly send you particulars of any or all.

### MED. PARAFFIN

Neatly packed with two styles of labels. A real quality line and enjoys a tremendous sale the year round. 6-oz. 8/9 doz., 8/6 gross lots. 8-oz. 10/3 doz., 10/- gross lots. 12-oz. 14/6 doz., 14/3 gross lots.

### CHEMIC'L FOOD

Prepared with great care according to the official formula. 4-oz. 6/9 doz., 6/6 gross lots. 6-oz. 8/3 doz., 8/- gross lots. 8-oz. 9/6 doz., 9/3 gross lots. 12-oz. 12/9 doz., 12/6 gross lots.

### SYRUPHYPO.CO.

A very good line that is always in demand. 4-oz. 8/6 doz., 8/3 gross lots. 6-oz. 12/6 doz., 12/- gross lots. 8-oz. 13/3 doz., 13/- gross lots. 12-oz. 18/9 doz., 18/3 gross lots.

### GLY. of THYMOL

An excellent and popular antiseptic. Neatly packed and labelled. 4-oz. 5/6 doz., 5/- gross lots. 6-oz. 7/- doz., 6/6 gross lots. 8-oz. 8/3 doz., 7/9 gross lots. 12-oz. 14/9 doz., 14/3 gross lots.

Good Showcards supplied.



Carriage Paid Terms £3.

W. B. CARTWRIGHT LIMITED . RAWDON NEAR LEEDS



# These Counter and Window Fittings will increase the attraction of your Displays



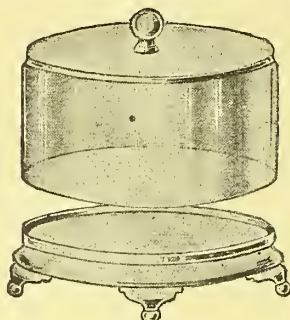
No. S.D.2383.

**Fancy Tripod Pedestal**

In Bronzed Metal.

12"	18"	24"	30"
10/6	15/-	22/6	28/-

each.



No. S.D.1327.

**Sandwich & Show Glass.**

Opal Base.

Plated Mounts.

10"	12"	14"	16"
17/6	21/-	27/6	32/6

each.



No. S.D.1494.

**Heavy Pattern Oak Pedestal.**

For use with large size sheives.

12" high	9/9,
18" "	11/-,
24" "	12/6,
30" "	15/-,
36" "	17/-,
42" "	19/6

each.



No. S.D.1880.

**Glass Ovals. (From Stock.)** $\frac{1}{4}$ " Unselected Plate

12" x 8"	15" x 10"	18" x 12"	24" x 15"	27" x 18"
3/9	4/6	5/6	9/-	12/6

each.

FREDK.



& CO. LTD

Head Office & Showrooms  
58-62 GRAY'S  
INN ROAD  
LONDON W.C.1

And at

92, Wood St., London, E.C.2  
8, Portland St., Manchester

The great artistic development which has taken place in Window Dressing and Interior Displays has created a demand for Stands and Fittings which assist the Display Man to obtain attractive settings.

We illustrate a few of the many types of Sage Display Fittings, which are both practical and pleasing in design.

These designs are the outcome of an intimate knowledge of the problems and requirements involved in the display of every class of merchandise, and are offered at keenly competitive prices.

We extend a cordial invitation to visit our Showrooms, where a wide range of designs is always on view, and will gladly mail free of charge a copy of our brochure "Cameras and Scented Soaps" to all who are interested.

To ensure prompt attention  
mark your enquiries :  
"SALES DEPARTMENT."

THE LARGEST SHOPFITTING ORGANISATION IN THE WORLD

# Maw's Page



## Parex Toilet Preparations Carry 100% Profit

For the pharmacist—and Only the pharmacist

There are twenty Parex Toilet Preparations—each one presented to the public to meet a popular demand, and each one giving evidence of high quality and purity.

A Parex Preparation looks good to your customer because of the artistic and elegant presentation. It proves to be good because of the care used in its manufacture and the quality of the ingredients. Parex Toilet Preparations are made in our model factory at New Barnet, where cleanliness and hygiene are the foremost considerations. There are many reasons why Parex Toilet Preparations should be strongly represented in your pharmacy—not the least being that each one **carries 100% profit.**

*Look over your stock of Parex Toilet Preparations to-day.  
They are too important to be neglected. They are the  
∴ pharmacist's own brand of high-class toilet needs. ∴*

### New Prices of "Parex" Toilet Preparations

	Wholesale.	Min. Retail.		Wholesale.	Min. Retail.
"Parex" Dental Cream ...	7/6 doz.	1/3 each.	"Parex" Beauty Leaves ...	3/0 doz.	6d. each.
" Tooth Powder, ...	7/6 ..	1/3 ..	" Poudre Compacte ...	7/6 ..	1/3 ..
" Upright Tins ...	4/6 ..	9d. ..	" Brilliantine Liquid, small ...	5/3 ..	10 1/2d. ..
" Flat Tins ...	6/0 ..	1/0 ..	" " " medium ...	9/0 ..	1/6 ..
" Baby Powder ...	7/6 ..	1/3 ..	" " " large ...	15/0 ..	2/6 ..
" Shaving Stick ...	9/0 ..	1/6 ..	" " Crystallized ...	7/6 ..	1/3 ..
" Talcum Powder ...	9/0 ..	1/6 ..	" Shampoo Powder (loose) ...	17/6 gross	3d. ..
" Bath Powder ...	9/0 ..	1/6 ..	" " Boxes of 7 ...	9/0 doz. boxes	1/6 box.
" Vanishing Cream ...	9/0 ..	1/6 ..	" Toilet Paraffin ...	10/6 ..	1/9 each
" Skin Cream ...	7/6 ..	1/3 ..	" Hair Wash ...	12/0 ..	2/0 ..
" Lanoline ...	7/6 ..	1/3 ..	" Bay Rum ...	9/0 ..	1/6 ..
" Cold Cream ...	3/0 ..	6d. ..	" Bay Rum and Cantharides ...	9/0 ..	1/6 ..
" Lip Salve ...					

S. Maw, Son & Sons, Ltd.,  
Aldersgate St., London,  
and Barnet.

TRADE



MARK

Telephone:  
City, 7  
Private  
Branch  
Exchange

Telegrams:  
Eleven  
Cent  
London

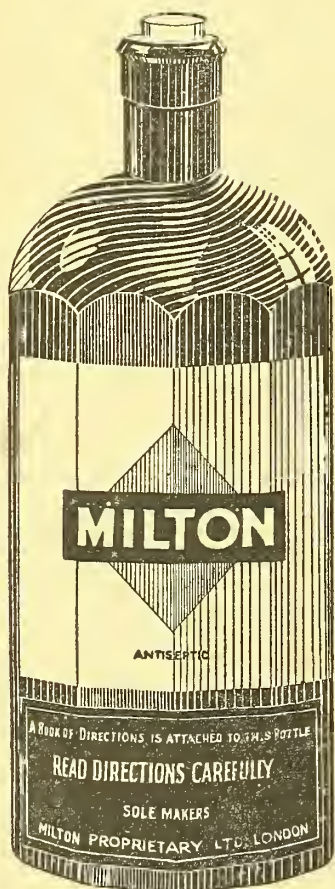
Cables: Code:  
Eleven A.B.C.  
London 4 1/2 & 5 1/2  
Edition



# Chillier Days Ahead!

## MORE MILTON NEEDED

*Milton will be  
heavily Advertised  
this Winter*



*The Analysis accom-  
panies every bottle.*

Autumn, and fogs, mists, sudden temperature changes at night, are coming—and with them coughs, colds, sore throats, catarrh.

Nothing is so effective for preventing or relieving these ailments as Milton, the finest hypochlorite solution medical science knows of.

4.68 times more effective as a germ-killer than pure carbolic acid—and you, as a professional man, know the vital importance of complete sterilization of mouth and throat as a preventive against these common winter ailments.

When sending in your order for Milton bear this fact in mind.

And a heavily concentrated advertising campaign is now bringing this fact before the public, too. Take advantage of it, by catering for the demand that it will surely arouse. Let people know you stock Milton and you will sell it.

The sooner you order, the sooner you will collect the profits.



ANTISEPTIC

**MILTON PROPRIETARY LIMITED,**

Office and Works : 125 Bunhill Row, E.C. 1

Telephone : Clerkenwell 3860. Tel., "Ocnolim, Barb., London."



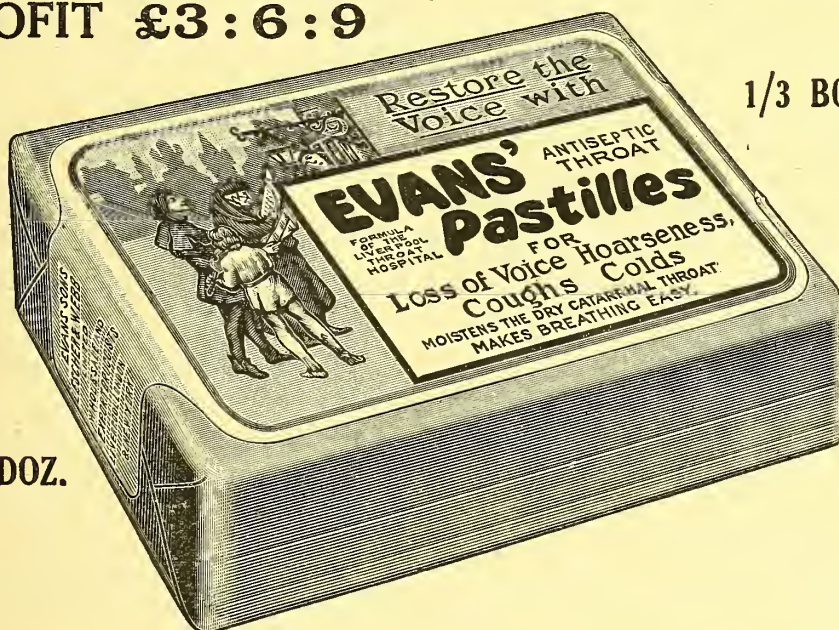
# EVANS' ANTISEPTIC THROAT Pastilles.

## PAY TO DISPLAY

*We give a Special Bonus of 5% for a Window Display for orders of 12 dozen which may be taken in 2 deliveries. The goods are well advertised.*

WHOLESALE			RETAIL		
12 Doz. at 11/3	£6	15 0	12 Doz. at 1/3 ea.	£9	0 0
Discount 5%	-	6 9	1 Doz. Free	-	15 0
Total Outlay	-	£6 8 3	Total Receipt	-	£9 15 0

**PROFIT £3 : 6 : 9**



11/3 DOZ.

1/3 BOX.

# "GREAT SALE"

## I should say so!

VERY many chemists report good sales of all Whitaker products. This is because Whitaker products are as good as it is possible to make them. The 45 years' accumulated experience in making home dyes has not been spent in vain—the results are in the product.

"Luton" Straw Hat Dyes—a typical Whitaker production—are supplied in dull or glossy series and consistently advertised in the leading newspapers and periodicals. They naturally appeal to every woman on both fashionable and economical grounds. Essentially a repeat-order and all-the-year-round line.

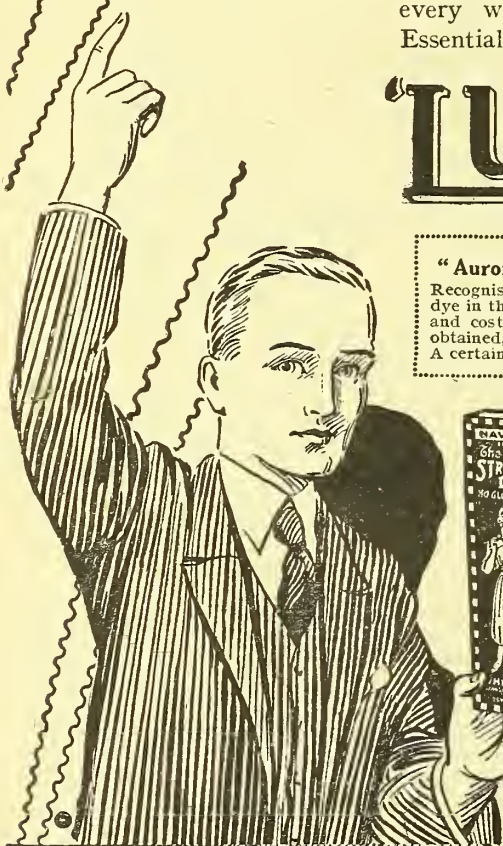
## "LUTON" STRAW HAT DYES.

### "Auroral" Dyes Cold Water.

Recognised as the finest cold-water dye in the world for dyeing delicate and costly fabrics. Good results obtained, even at the first attempt. A certain seller.

### "Luton" Fabric Dyes.

The best hot-water dyes for all materials, giving perfect results with the minimum of trouble. As with all Whitaker products, they show a good profit.



All Cases and Containers Free.  
A Special non-inflammable  
Series is supplied for Export.

ENTIRELY BRITISH—BRITISH ENTERPRISE—  
BRITISH LABOUR—BRITISH CAPITAL.

## WHITAKER & CO.

### Luton Dye Works, KENDAL

*Dye Specialists to the Chemists' Trade.*

Telegrams: "DULLETTE KENDAL." Telephone: 214.

*London Office and Showrooms:*

61 & 62 CRAVEN HOUSE, KINGSWAY, W.C.2.

Established 1878.

Telephone: Gerrard 1774.



An early start is the surest way to a record season. . .



Single sample at quoted price post free to any Trading Chemist. . . .

**BRITISH** made from the very finest materials, and under the most advanced manufacturing conditions. Every bottle is guaranteed burst-proof, because it is built with steam-resisting rubber incorporated with a texture support. All seams are reinforced and are of extra width — a little point which means much. The valve is an improved type, flush with the neck so that no metal portion is unprotected. Other refinements include an extra deep neck support, giving additional strength and longer life to the bottle, and an extra wide funnel is provided for convenience and protection whilst filling.

## HOT WATER BOTTLES

### Finest Grey Rubber

	8×6	10×6	10×8	12×6
Singles ..	2/11	3/3	3/6	3/7 each
1 dozen Assorted..	2/10	3/2	3/5	3/6 „
3 dozen Assorted..	2/8	3/-	3/3	3/4 „
	12×8	12×10	14×8	14×10
Singles ..	4/2	5/-	4/9	5/10 each
1 dozen Assorted..	4/1	4/11	4/8	5/9 „
3 dozen Assorted..	3/11	4/9	4/6	5/6 „

*Chemist's own name moulded on three dozen lots.*

### Finest Red Rubber

	10×8	12×8	12×10
Singles ..	4/9	5/3	6/3 each
1 dozen ..	4/7	5/1	6/1 „
3 dozen ..	4/6	5/-	6/- „

### Moulded (Red Rubber) Bottles

	2 quart—10×7	3 quart—11½×7½
Singles ..	5/-	5/9 each
1 dozen ..	4/10	5/7 „
3 dozen ..	4/8	5/6 „

*Special quotations for 6 and 12 dozen quantities.*

**Get a sample and compare quality for price.**

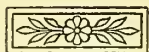
**D**ISPLAY—Is there anything more difficult to put on show than a Hot Water Bottle? You are dealing with expensive units, and the risk of spoilage by sun and dust is considerable. A rubber bottle falls “all of a lump” in the window and looks an untidy mess—certainly not an inducement for the public to stop and look. None of the rules of display can be followed—unless you have Ayrton's three-panel display screen, which needs only one Hot Water Bottle to make a “stop-the-people” Window Show.

**AYRTON, SAUNDERS & CO., LTD.**  
*“Everything Pharmaceutical.”* **LIVERPOOL.**

# OUR STAND IS 43

==== *Leeds* ====

*Chemists' Exhibition*



**THOMAS WAIDE & SONS, LTD.**

The Chemists' Printers,

**KIRKSTALL ROAD, LEEDS**





# *A dozen Mount Everests*

with a total height of sixty-five miles, would be completely dwarfed by a pillar made with a year's output of our famous

## **EMULSION ANTISEPTIC THROAT PASTILLES**

The reason for this great (and growing) demand is to be found in the pastilles themselves, and a sample will be willingly sent to any Chemist who is not personally acquainted with this, the leading pastille product of the House of Kerfoot.

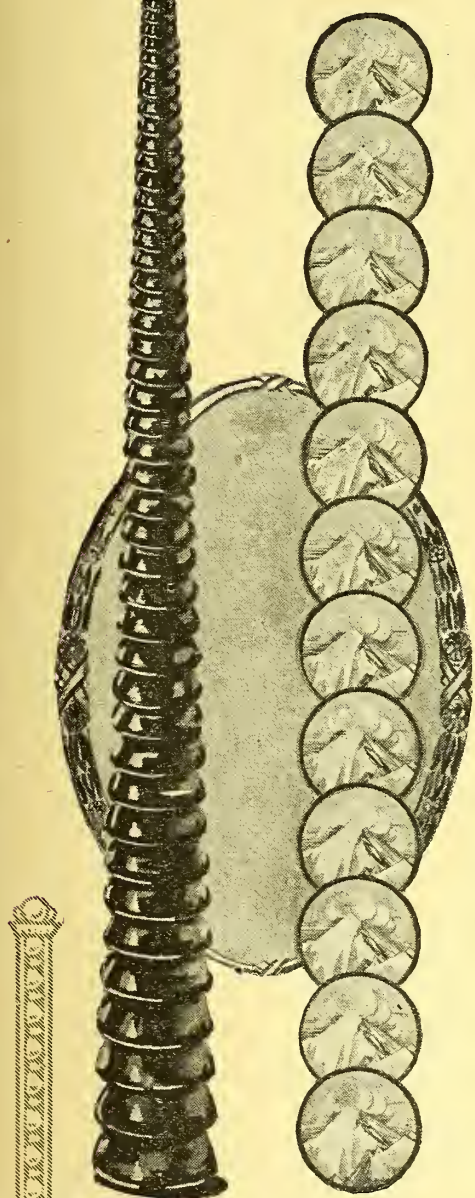
### TRADE PRICES.

Bulk, 3/- per lb. 14 lbs., 2/11 lb. 28 lbs., 2/10 lb.  
In "Marble" Tins P.A.T.A. Min. 9d. 5/6 dozen.  
In "Marble" Tins P.A.T.A. Min. 1/4. 11/- dozen.  
BONUS of one dozen free tins with orders of 1 gross.

**THOMAS KERFOOT & CO LTD**  
BARDSLEY VALE, LANCASHIRE,  
& Bardsley House, London, N.1  
ESTABLISHED 1797.

A/181

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Before buying your stocks  
OF

## CHRISTMAS PERFUMERY

we invite you to see some of our new  
and dainty lines in

**SCOTCH HEATHER  
DEVON LILIES  
DEVON VIOLETS  
LILAS LILAS, ETC.**

We are already booking orders and our  
customers are anticipating a large sale in  
the Autumn.

The Perfume is of the best.  
The "get-up" is beyond criticism.  
The prices are highly competitive.

Artistic show-cards of a novel kind are sent with  
each consignment and window display material  
can be arranged.

**IF OUR TRAVELLER IS NOT  
CALLING ON YOU REGULARLY  
PLEASE DROP US A LINE AND  
WE WILL MAKE ARRANGEMENTS  
FOR HIM TO CALL.**

*Such a request will involve no obligation  
to buy.*

**SPURWAY ET CIE.**  
LIMITED

89 GREAT EASTERN ST., LONDON, E.C.2

Telegrams: "Neroli, London."  
Telephone: Bishopsgate 1372.

Factories & Distilleries: Cannes-Grasse, Riviera.  
Technical Laboratories: Paris.

NEW YORK. LEIPZIG. KINGSTON (ONTARIO).

## DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

### Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A.
<b>PILENTA SOAP</b> ...	10/-	1/-
A complexion soap.		
<b>PROLACTUM</b> ...	10/-	1/-
For the lips.		
<b>PARSIDUM JELLY</b> ...	10/-	1/-
For wrinkles.		
<b>ALLACITE OF ORANGE</b>		
<b>BLOSSOM</b> ...	22/6	2/6
A dressing cream.		
<b>BORANIUM</b> ...	22/6	2/6
A hair tonic.		
<b>CLEMINITE</b> ...	22/6	2/6
For a face lotion.		
<b>COLLIANDUM</b> ...	22/6	2/6
For a face tint.		
<b>PERGOL</b> ...	22/6	2/6
A deodorant.		
<b>TEKKO PASTE</b> ...	22/6	2/6
Camphor cream.		
<b>STALLAX</b> ...	22/6	2/6
For a shampoo.		
<b>JETTALINE</b> ...	31/6	3/6
For clearing the skin.		
<b>PHEMINOL</b> ...	36/-	4/-
A depilatory.		
<b>MENNALINE</b> ...	36/-	4/-
For the eyelashes.		
<b>MERCOLIZED WAX</b> ...	18/-	2/-
A face cream.		
	31/6	3/6
<b>STYMOL</b> ...	36/-	4/-
For oily complexions and blackheads.		
<b>SILMERINE</b> ...	22/6	2/6
Hair-curling fluid.		
<b>BARSYDE</b> ...	22/6	2/6
Dandruff eradicator.		
<b>TAMMALITE</b> ...	22/6	2/6
For grey and faded hair.		
<b>LIQUID PERGOL</b> ...	31/6	3/6
To check excessive perspiration locally.		
<b>BICROLIUM</b> ...	22/6	2/6
For whitening the hands.		
<b>COCONOIDS</b> ...	31/6	3/6
For figure development.		

### The Products of

**Messrs. PARKER, BELMONT & CO.**

<b>CLYNOL BERRIES</b> ...	36/-	4/-
For obesity.		
	58/6	6/6
<b>SOFT PALERIUM</b> ...	45/-	5/-
For wrinkles.		
<b>LIQUID NAIL POLISH</b> ...	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

### COLONIAL DEPÔTS AND AGENCIES.

*Australia:* ALL WHOLESALEERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.  
*South Africa:* LENNON Ltd., Cape Town, etc.  
*SIVE BROS. & KARNOVSKY,* Johannesburg.  
*India:* FRAMJEE & SON, Bombay.  
A. L. CHOUDRY, Calcutta.  
*New Zealand:* SHARLAND & CO., Auckland and Wellington.  
*South America:* DEARBORN (South America) Ltd., Calla Salta 264, Buenos Aires.  
*Strait Settlements & Federated Malay States:* MEDICAL HALL, Ltd., Singapore.





## The supreme quality of all Coty Specialities is everywhere recognised

**T**HEIR quality and presentation, however, can be guaranteed only when obtained through Coty (England) Limited, the sole authorised importers and distributors in Great Britain, or through the established Wholesale houses duly authorised by this Company to deal in Coty Specialities.

Although the decoration and fitting of our premises is not yet complete, our warehouse and despatch department are now at the service of the Trade. Our efforts are being directed to the organisation of a service worthy of the high standard of our products. **Coty must stand for perfection.**

**NOW ON**

**P.A.T.A.**

Price List, together with Schedule of Discounts and the General Conditions of Sale, has been issued recently to the Trade, but we shall be pleased to mail further copies to Members of the Trade upon written application

Telephone:  
MAYFAIR  
3795.

Telegrams:  
PARICOTY  
WESDO  
LONDON.

**COTY (ENGLAND) LTD.**  
"Parfums de Luxe"  
**WALMAR HOUSE, 298, REGENT STREET,**  
**LONDON, W.1.**



ONE of Wembley's wonders  
is the sweetness of this  
sweetest flower, captured and  
bottled by Plaimar, Ltd., of  
Perth, in the form of—

## "BORONIA" PERFUME

## "PLAIMAR" SANDALWOOD OIL

"PLAIMAR" Oil, which is the result  
of years of research and experi-  
ment, retains the delicate aroma  
of the West Australian Sandalwood in  
all its subtle perfection. The success  
of "Plaimar" is a guarantee of its  
quality. The first shipment was not  
made until June, 1921, and to-day  
the great factories of Plaimar, Ltd., are  
hard put to it to cope with the demand.

Samples and Prices from Sole Agents:

**PLAISTOWE & CO., LTD.**  
KING'S CROSS, LONDON: & PARIS

Telephone .. .. North 829 (3 lines).  
Telegrams .. .. Plaistowe, Kincross, London.  
Cables .. .. Plaistowe, London.

HERE IS THE LINE you must surely have  
been looking for in order to **increase your**  
**profits** and meet your customers' ever-  
increasing demand.

### "GALJADO" SCURF LOTION for all SCALP and HAIR TROUBLES.

Small size, 10/6 per dozen.	S.P. 1/6 per bottle.
Standard " 16/6 "	S.P. 2/6 "
Large " 33/- "	S.P. 4/6 "

"GALJADO" TOILET PREPARATIONS are universally  
renowned, and are obtainable of all Wholesalers or direct.  
Current price lists sent free on application to

**THE GALJADO PERFUMERY CO., Ltd.**  
9 Goswell Road, LONDON, E.C.1.

## IT WILL PAY YOU

to study our prices. We specialize in your requirements and  
have a large variety of suitable lines at lowest prices, viz.—

**TOOTH BRUSHES**, White Handle, Waxed Backs, 3/- and  
4/- per dozen.

**TOOTH BRUSHES**, Coloured Celluloid Handles, stamped  
"Hygiene," 3/6 per dozen.

**PRO-PHY-LAC-TIC TOOTH BRUSHES**, each in a carton,  
12/- per dozen.

**FRENCH SHAVING BRUSHES**, Guaranteed Free from  
Anthrax, with Wood or Bone Handles, in large  
variety, 3/6, 4/-, 7/6, 12/-, 18/- and 27/- per dozen.

We can also supply **Genuine Gillette Blades**, and all leading  
makes of **Safety Razors and Blades**. Let us quote you. Our  
prices are unbeatable. Terms: Nett Cash with Order or  
goods sent against approved refs.

**L. FRANKENBERG**, 15 Stone Lane, Houndsditch,  
London, E.1. Phone: Avenue 1170.

## DODGE & OLCOTT CO.,

20 MARK LANE,  
LONDON, E.C.3.

THE "D & O" BRAND  
is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,  
SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu.  
TONKA BEANS, Angosturas.

Phone—  
ROYAL 3843.

Telegrams—  
"EGDARF, FEN, LONDON."



# Trade follows the Ad.

The absolute necessity for increasing British trade—Home and Export—is daily being emphasised by statesmen, business men and bankers.

Travelling and postal costs are now so prohibitive that advertising in a reputable trade journal, with a genuine appeal to actual buyers, like

## THE CHEMIST AND DRUGGIST

is the most effective and least expensive way of selling goods.

In the case of THE CHEMIST AND DRUGGIST the appeal is universal. Besides having as regular subscribers all the worth-while firms—manufacturing, wholesale, export and retail—in the United Kingdom, the subscription list includes the names of thousands of responsible firms buying and selling drugs, chemicals, perfumery, druggists' sundries, and allied products in the following countries overseas:

<b>BRITISH EMPIRE</b> Australia British Columbia British Guiana British West Indies Burma Canada Ceylon Cyprus Fiji Islands Gibraltar Gold Coast Hong Kong India Jamaica Kenya Colony Malay States Malta Newfoundland New Zealand	Nigeria North Borneo Rhodesia St. Helena Sierra Leone South Africa Trinidad Uganda Zanzibar <b>EUROPEAN CONTINENT</b> Austria Belgium Bulgaria Czecho-Slovakia Denmark Estonia Finland France Germany Greece	Holland Hungary Italy Latvia Norway Poland Portugal Roumania Serbia Sicily Spain Sweden Switzerland Turkey Yugo-Slavia <b>CENTRAL AMERICA &amp; SOUTH AMERICA</b> Argentine Bolivia Brazil	Chile Colombia Costa Rica Cuba Ecuador Guatemala Haiti Panama Peru Salvador Uruguay Venezuela <b>AFRICA</b> Algeria Canary Islands Congo (Belge) Egypt Morocco South-West Africa Protectorate Sudan	<b>NEAR EAST &amp; FAR EAST</b> Arabia Asia Minor China Japan Java Manchuria Mesopotamia Palestine Philippine Islands Siam Syria <b>UNITED STATES OF AMERICA</b> <b>MEXICO</b>
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Thus wherever the British Flag goes there also is THE CHEMIST AND DRUGGIST, and the point to bear in mind is

that it is sent regularly at the request of eager buyers of Drug-trade commodities who prepay 20/- to have it delivered to them weekly for twelve months.

The Firm with Drug-trade merchandise to dispose of, therefore, which is not advertising in THE CHEMIST AND DRUGGIST is losing golden opportunities.

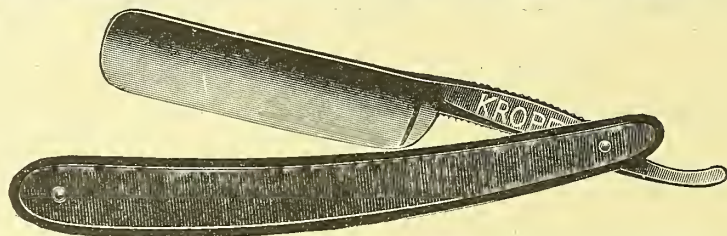
All particulars regarding available space, special positions, coloured insets, &c., from—

**THE PUBLISHER, THE CHEMIST & DRUGGIST,**  
 42 CANNON STREET - - - LONDON, E.C.4.

Branch Offices:  
 MANCHESTER (ENGLAND);  
 and SYDNEY & MELBOURNE,  
 AUSTRALIA.

THE SHAVER'S LUXURIES**KROPP RAZOR**

ALWAYS  
READY  
FOR USE



EACH  
RAZOR IN  
A CASE

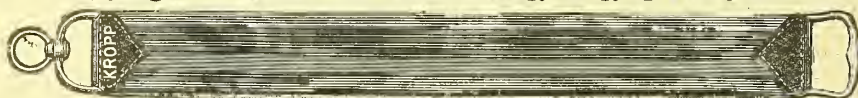
MADE AND GROUND IN SHEFFIELD, ENGLAND.

**NO RAZOR GENUINE UNLESS STAMPED**

ON ONE SIDE:—"KROPP."

REVERSE SIDE:—"MADE AND GROUND IN SHEFFIELD, ENG."

Black Handle, 10/6; Nylonite Handle, 12/6; Ivory Handle, 18/- each.

**KROPP DUPLEX HANGING STROP**

Specially Prepared Canvas and Leather.

5/6 each.

**KROPP CUSHION STROP**

10/- each.

**KROPP DUPLEX RAZOR STROP**

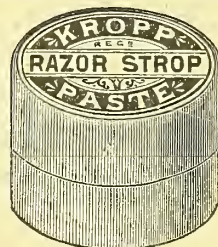
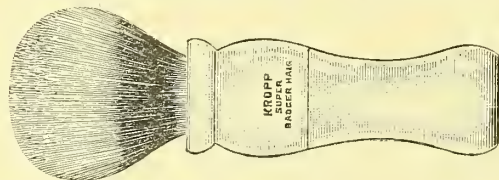
12/6 each.

**KROPP SUPER BADGER  
HAIR SHAVING BRUSH**

Made of the best Super Badger Hair and Finest White Bone. The pattern is the best—the cup prevents soap running down the handle of brush. The manufacture is the very highest class.

Made in four sizes:

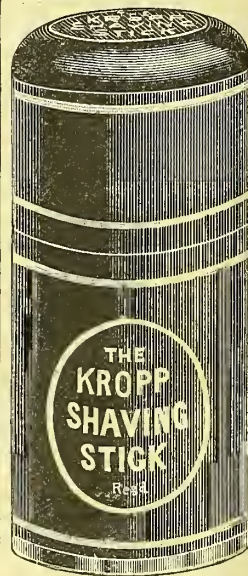
No. 0, 10/6; 1, 15/-; 2, 23/-; 3, 33/- each.



1/-  
each.

**KROPP  
RAZOR STROP PASTE**

For preserving the Strop, and imparting a keen edge to the Razor.  
In METAL BOXES, as illustration.

**KROPP  
SHAVING SOAP**

This Soap is especially manufactured for shaving. It is pure soap of the finest quality, and is agreeably perfumed. It produces a good creamy lather, softens the beard, and is cool and seductive to the skin.

1/- each.

**OSBORNE, GARRETT & CO., LTD.**

Wholesale Depot : - - 51/54 FRITH STREET, SOHO, LONDON, W.1



THE  
ORIGINAL  
AND  
STILL  
THE BEST

# Frozoclone

REGD.

HAS  
MANY  
IMITATORS  
BUT NO  
EQUAL



In Green Bottles, Registered.

## The One Solid Cologne that really does give SATISFACTION

Made from the finest Eau de Cologne solidified by a special process which allows the complete bulk of perfume to be available. It remains fragrant till the last spot.

*Its elegance and utility appeal to all.*

Refreshing when rubbed on the fore-head ; therefore, invaluable in a heated atmosphere or when travelling. Excellent after shaving. A boon to those in Hospital.

Retail 3s. 6d. Minimum (P.A.T.A.) Per Doz. 32/-

*Special Terms for Bonded  
Shipment of 4 gross minimum.*

**SOLID ENGLISH LAVENDER** Terms as for "Frozoclone"

**ANALAX**

The Ideal Fruity Laxative. In Pastille form.

Retail 2s. 3d. minimum.

**CARNATE**

The Elegant Nail Polish. In White Pots. Retail 1s. 9d.

**MUTHOL**

The Original Solid Russian Paraffin Liquid B.P. 90%.  
Flavours : Raspberry, Orange and Lemon.

## R. DEMUTH'S LABORATORIES

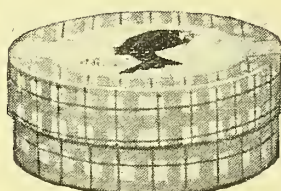
68 Salusbury Road, and Montrose Avenue, LONDON, N.W.6.



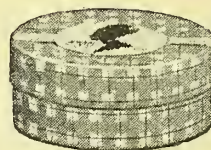
# ARMAND



4/- size.



2/- size.



1/- size.

## COLD CREAM Complexion Powder

### Who Gets the Odd 3d.?

Out of every 1/- you take for most toilet goods, about 3d. is spent in making you stock it.

Isn't it sense to sell Armand every time you can and pocket that 3d. which Armand passes on for your goodwill?

### Quality, Profit, and Turnover.

This combination is happily joined in Armand. Drop us a postcard so we may point out how Armand will work for you.

*Florian & Armand Ltd.,  
Queensway, Ponders End,  
Middlesex*

*9/6 Profit  
in every £1 you sell  
of Armand Goods*







# "Oyez" *The Toilet Water of the Beautiful*

Our Advertising Campaign is  
NATION-WIDE.  
Covers London and Provinces



*Daily Telegraph.*  
*Morning Post.*

*The Times.*  
*Daily Graphic.*

## NATIONAL ADVERTISING in the Press

Our Advertisements are  
appearing in the Great  
National Papers and Con-  
tracts are placed with  
over 100 Provincial  
Newspapers.

### "OYEZ" PRICES

4-oz bottle 2/6 30/- per doz  
8-oz. " 4/- 48/- "  
Presentation 8-oz. bottle  
7/6 each 90/- per doz.



Window Display  
8" x 6" x 10"

## FREE SAMPLE CAMPAIGN

Free Samples are now  
being distributed in a  
large number of Provin-  
cial Towns backed up by  
strong Local Press  
Advertising.

All Prices are subject to

**33 1/3%**

Discount to the Trade,  
Plus Special Bonus.

## GUARANTEED SALE

(This does not mean Sale or Return, but Sale and/or profit irrevocably guaranteed)

## AGENTS WANTED

The Trade is cordially invited to co-operate with us. Our terms are generous. The guarantee is unexampled and irrevocable. Our advertising is bringing us in a very large number of direct orders from the Public and these orders we desire to divert to the local trade.

Please sign and post us to day the Guarantee Sale Order Form (*see overleaf*).

*Sole Agents—*

**JOHN MORGAN RICHARDS & SONS, Ltd.**

46/47 Holborn Viaduct, London, E.C 1.



Showcard 10"×15"



Sample Stand 10"×5"×15"

Do not miss the attractive Bonus Scheme (see below)

Take  
Advantage  
to-day  
of the  
"OYEZ"  
IRREVOCABLE  
GUARANTEE

See Form below

FACSIMILE & EXACT SIZE

OYEZ



FREE GIFT BONUS BOTTLE

All  
our old  
Friends  
invited  
to share  
in the  
GUARANTEED  
PROFIT

See Form below

Presentation Showcard 8"×12"

## IRREVOCABLE

THE GUARANTEE ORDER FORM (C. & D. Sept. 13, 1924)

(Available for 30 days from date)

Please send me Sale Guaranteed (sale and/or Profit)  $\frac{1}{2}$ -doz. 4-oz. bottles  
"OYEZ" (2/6 size) @ 30/- per doz., less 33 $\frac{1}{3}$ %, 10/-  
(If Cash is enclosed 5% discount may be deducted)

Enclose Showcard as above and details of special Free Sample Offer and  
particulars of Bonus Scheme Presentation Bottle.

We want to be an "OYEZ" Agent to whom you may refer enquiries.

Attach  
NAME LABEL  
here.

To JOHN MORGAN RICHARDS & SONS, Ltd.  
46/47 Holborn Viaduct, London, E.C.1.





# A NOVELTY IN SHAMPOOS

carrying 77 % profit



Customers are always attracted by something new, especially when really useful and in constant demand. You can now offer Vinolia Shampoo Petals—translucent, petal-like flakes—which dissolve readily and provide the wonderfully refreshing fragrance which has for so long distinguished Vinolia Premier Soap. You can sell a packet of this latest and most effective shampoo with no more effort than it takes to sell the old-fashioned powder, and secure a profit which exceeds your former total turnover.

Exhibit a display box of Vinolia Petals on your counter and in your window, and so create more sales as well as goodwill.

# Vinolia

## Shampoo Petals

FRAGRANT      CLEANSING

Retail 9d. per bag

Wholesale 6/9 per doz. subject

In silk-tied bags—Q.S. for from 6 to 8 shampoos. In attractive display boxes of six

PROFIT ON OUTLAY 77 % ON BEST TERMS

Details and specimen on application

VINOLIA CO. LTD.

LEVER HOUSE, BLACKFRIARS, LONDON, E.C.4

Works: Bebington, Cheshire

# Piesse & Lubin's

## EAU de COLOGNE (Solide)

*is now produced in a 'petite' size  
suitable for a Lady's Handbag*

**I**N ORDER to meet the widespread demand for a smaller size tube of Piesse & Lubin's Solidified Eau de Cologne, pleasure is taken in announcing that this popular line is now produced in a size suitable for a lady's handbag or purse. This 'petite' size is certain to be in great demand, and

*Selling at 1/6, shows you 33 1/3% Profit*

Attractively packed in a handsome "Outer" for counter display, both the 2/6 size and the new 1/6 "petite" size of Piesse & Lubin's Eau de Cologne (Solide) in the dainty glass tubes with nickel screw tops, make a very bright show indeed.

SEE OUR  
STAND AT  
THE LEEDS  
EXHIBITION

SEPTEMBER  
15th to 19th.

PIESSE & LUBIN, LTD., *Parfumeurs*, 244 High Holborn, LONDON, W.C.1

### A new Vanishing or "after shave" Cream



#### Vanishing Cream

has not the usual disadvantages of face creams as it is *not sticky* and does not leave a sticky feeling.

It is *rapidly absorbed* by the skin.

It is only *slightly perfumed* and is very economical in use.

It leaves the skin with that soft, velvety surface so much desired and is very refreshing.

These merits are quickly being appreciated by the public.

It always pays to stock the best article of its kind. Retail: Tubes, 1/3 each. Pots, 2/- each.

May we send you a small trial supply?

Manufactured by the proprietors of "LITTO" hair preparations.

LITTO LABORATORIES  
2 Newington Green, LONDON, N.1

### POWDER PUFFS

Our creations in Novelty Powder Puffs are acknowledged to be **UNIQUE**; they are original, dainty, artistic, well made and attractively boxed and labelled—they develop profitable business. The many patterns and prices cover all markets. Our large and rapidly increasing sales to all parts of the world prove the popularity of our lines. Being British made of finest selected material every article is reliable and is guaranteed. For your Christmas trade in these lines you cannot do better than to get in touch with us:

Write to-day to

**SPENCER BROS.**

*Specialists in Fancy Powder Puffs for  
the Wholesale and Shipping Trade,*

17 FARRINGTON AVENUE, LONDON, E.C.4.

*Tel.: Holborn 369*

### CINEMA SPRAY SOLUTION

*In 16 oz. bottles or in bulk.*

Special quotations from

**JOSEPH BROOKS & CO., LTD.**

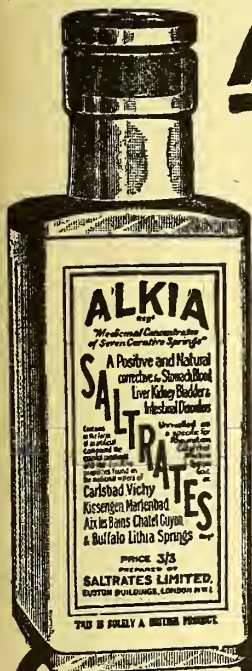
*Wholesale Druggists and Manufacturing Chemists,*

42 SHUDEHILL, MANCHESTER.

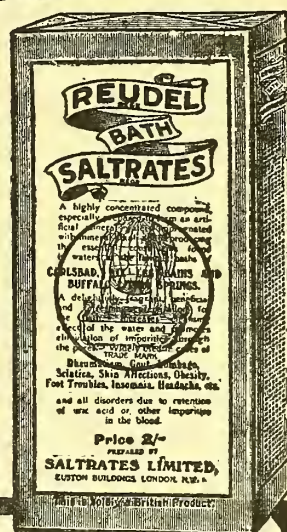
Telephone—CITY 866.



# Two lines which can be recommended with Absolute Confidence



They always mean a pleased and satisfied customer because they do exactly what our advertisements say.



## ALKIA SALTRATES

The most efficient Saline on the market and the best value for the money. Pleasant tasting and always satisfies the user. Widely advertised for Rheumatism, Gout, Sciatica or any Liver, Kidney, Stomach, Intestinal or Blood Disorders, Catarrhal Affections, etc.

SELLS AT 3/3 (P.A.T.A.)

## REUDEL BATH SALTRATES

The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath. Especially recommended in cases of Foot Troubles, Rheumatic Pains, Stiffness, Strains, Sprains, etc. Always extensively advertised.

SELLS AT 2/- AND 3/3 (P.A.T.A.)

NOT COMPOUNDED AS THE CHEAPEST PREPARATIONS OF THEIR KIND BUT THE BEST PRODUCIBLE REGARDLESS OF COST

## GUARANTEED SALE TERMS

Free Bonus

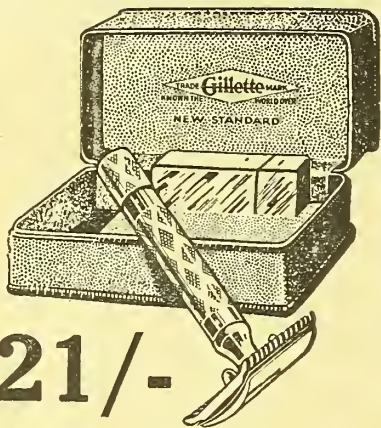
Free Cases

Free Carriage

Carriage Paid and Free Cases in United Kingdom on orders for 3 dozen, which may be assorted. Showcards of strong selling power sent free on request. Display them in your window and attract extra business from our present extensive advertising campaign. Write for particulars of our Special Bonus Terms for WINDOW DISPLAY.

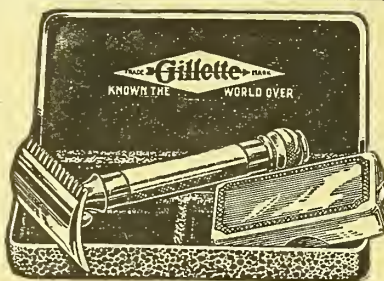
SALTRATES LIMITED, EUSTON BUILDINGS, LONDON, N.W.1.





**21/-**

NEW IMPROVED GILLETTE  
SETS 21/- AND UPWARDS.



GILLETTE COLLEGE  
SET. A POPULAR 5/-  
SET AT A POPULAR  
PRICE.....



By Appointment  
to His Royal  
Highness The  
Prince of Wales.

## GILLETTE BLADES

PACKETS of 10  
(20 shaving edges)

**4/6**

PACKETS of 5  
(10 shaving edges) 2/3

The Gillette Range meets  
every shaving need — at  
prices to suit all pockets.

It pays to stock the Gillette line. Each outfit sold  
means one more regular customer for Gillette Blades

Write for latest price list and trade terms.  
Goods despatched Post Free in the United Kingdom.

**GILLETTE SAFETY RAZOR LTD.**  
184-188 Great Portland Street, London, W.1.

# Gillette

SAFETY RAZOR

KNOWN THE WORLD OVER

NO STROPPING. NO HONING.

Telephone: Axminster 5.

Telegrams: "Coate, Axminster."

## COATE & CO. (Axminster) Ltd.

The London Brush Works, Axminster, Devon.

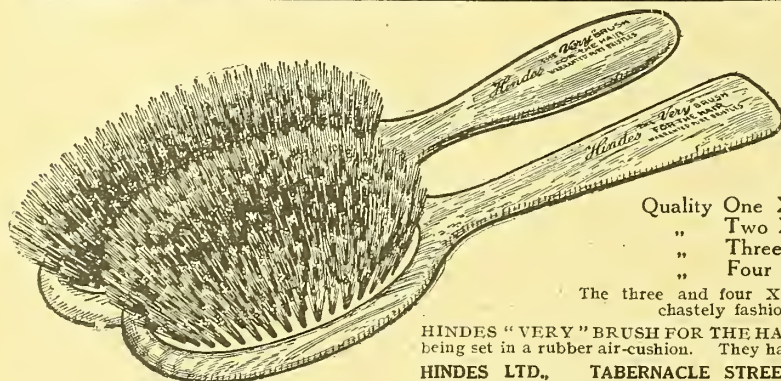
Estab. 1847.

*Manufacturers of Super British Brushes*

Our Special "PROPHYLACTIC" Tooth Brushes—

3 row Hard, Medium, Soft, Yellow Hair @	...	...	...	16/-	per dozen
4 " " " " " " " " " " " "	...	...	...	18/-	" "

Orders for one gross supplied in Cartons with customer's name and address free.  
Every Brush Guaranteed. British made by British Labour. Send for our present list of prices.



## HINDES "VERY" HAIR BRUSH

Quality One X	Sold at 7/6d. each.	} TRADE PRICE 33 1/3%
" Two XX	" 10/6d. "	
" Three XXX	" 15/- "	
" Four XXXX	" 18/6d. "	

The three and four XXXX grade is made in Ebony or Rosewood  
chastely fashioned in both oval and circular bodies.

HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles, the multiple tufts  
being set in a rubber air-cushion. They have been known to the trade for nearly 40 years.

HINDES LTD., TABERNACLE STREET, LONDON, E.C. :: Works: BIRMINGHAM



# HOVENDEN'S TOILET PREPARATIONS

*Below are a few of the lines we are supplying with Customer's Own Name & Address.*

## TOILET PARAFFIN



No. 4870. (About 4oz.)  
8/6 doz.  
No. 4871. (About 5½oz.)  
10/6 doz.

## VIOLET OIL



No. 4776. (About 4oz.)  
(as illus.), 23/- doz.  
No. 4804. (2oz.) Stop-  
pered botts., 13/6 doz.

## BRILLIANTINES



No. 4863.  
(About 2½oz.)  
Non-Sep.,  
6/6 doz.



No. 4869.  
(About 2oz.)  
With Spirit,  
7/- doz.

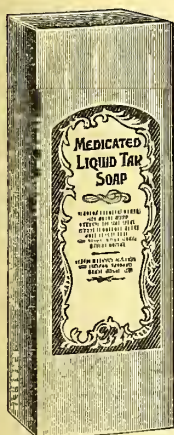
## HAIR CREAM



No. 4320. (About 6oz.)  
10/6 doz.  
Supplied Non Greasy and  
Greasy. When ordering, please  
state which is required.

## MEDICATED TAR SOAP A SALEABLE LINE.

Highly recommended for irritation of  
the Scalp,  
Dandruff, &c.



No. 4755. Each in carton (as illus.),  
10/6 doz.

*Any of these can be supplied  
with Name & Address printed  
free on labels in 3-doz. lots.*

## HENNA SHAMPOO POWDER



No. 4618/5. 5 packets in cartons - 8/6 doz.  
No. 4618/7. 7 packets in cartons - 11/- „

## EMULSIFIED COCOA NUT OIL



No. 4801. (About 4oz.)  
7/3 doz.

**R. HOVENDEN & SONS, LTD.** 89, 91, 93 & 95 CITY ROAD, FINSBURY, E.C.1, and  
29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W.1  
Tel.: Museum 2810 (3 lines). Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.1. Tel.: Clerkenwell 7601, 7602, 7603 (3 lines).



# The easiest Sponge to Sell

TO show Sorbo Sponges is to sell them, for already in thousands of homes Sorbo Sponges make the toilet a joy to everybody from the oldest to the youngest. People who have once used a Sorbo will never buy an ordinary sponge again—they buy Sorbo Sponges for their children and recommend them to their friends.

Always show a good stock of these favourite sponges, for *people go where they can get Sorbo.*

## SorboSponge

THE MOST ABSORBENT RUBBER SPONGE

**SORBO RUBBER-SPONGE PRODUCTS, Ltd.**

Sorbo Works

::

Woking

::

Surrey

Telegrams: Sorbo, Woking.

Telephone: Woking 666.



### RETAIL PRICES

No. 1	...	...	1/-
No. 2	...	...	1/9
No. 3	...	...	2/6
No. 4	...	...	3/9

Bath Sizes:

No. 4R	...	...	5/-
No. 5	...	...	7/6

**All SORBO lines  
promptly despatched  
on receipt of order.**

For  
**Sponges**

write to

## MARCUSON

*Being unfettered by any Combine we  
can offer you advantageous terms.*

**MARCUSON BROS. & CO.**

Only English Address— 32 MINORIES, E.1  
LONDON

Cables: "Pantalaria, Ald, London." Phone: Avenue 840.

A Beauty Aid for Women  
which does not compete with  
any existing line you stock.

## Artifex

soft all-rubber Curlers are particularly suitable for

**BOBBED HAIR**

because they curl the extreme ends of the hair.

Attractive show cards, counter display boxes and  
other sales matter with every order.

Artifex Curlers are being stocked by a rapidly  
increasing number of chemists. For your share  
of the business get particulars of this quick-  
selling, well-advertised line from your whole-  
saler, or, if you prefer, write in first instance to

**"ARTIFEX" DEPARTMENT,**

*The* **MERKHAM TRADING CO. LTD**

Bush House ∴ Aldwych ∴ W.C.2



# Millions of People

are being told in our  
Press Advertising that

"To get the Pro-phy-lac-tic Tooth  
Brush, originated and made by the  
Florence Mfg. Co., of Florence, Mass.,  
U.S.A., since 1880, look for the hyphen-  
ated word Pro-phy-lac-tic stamped on the

**YELLOW BOX."**

To an ever-increasing public our convincing  
advertising is driving home in the monthly,  
weekly, and daily Press the merits of the  
Pro-phy-lac-tic Tooth Brush in the sanitary  
YELLOW Box.

Let the public see the Pro-phy-lac-tic in your  
windows—and thus profit by this advertising.

## Pro-phy-lac-tic Tooth Brush

**Only in YELLOW BOX**

*Manufactured by the Florence Manufacturing Co.,  
Florence, U.S.A.*

In 3 sizes—adult's, youth's, and child's;  
in 3 textures of bristles—hard, medium, or  
soft; one quality only—each in its indi-  
vidual YELLOW Box with hook for hanging.

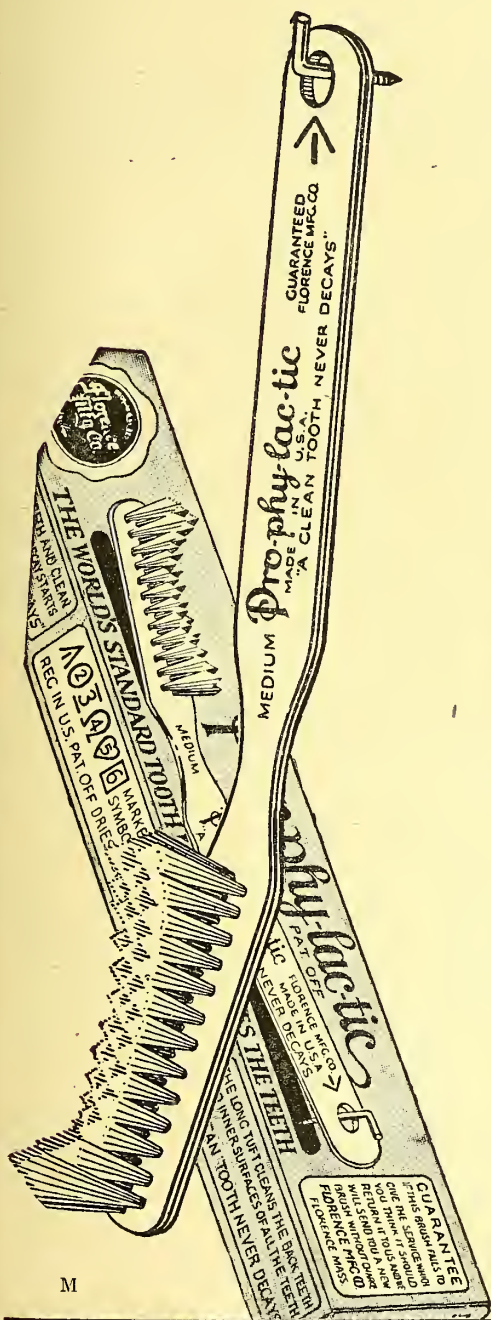
**Price to the Public .... 2/6**

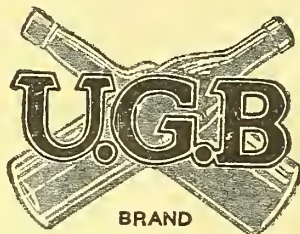
**To the Retailer, a Full Trade Profit**

*Sold through the Wholesale Houses only*

**WM. E. PECK & CO., Inc.**

31 Bartholomew Close - - LONDON, E.C.1





BRAND

USE GOOD BOTTLES

We are exhibiting  
a representative  
range of our pro-  
ducts at Stand No.  
M438, Palace of  
Industry, British  
Empire Exhibition.



# CONSISTENCY

"CONSISTENCY" is a characteristic of every U.G.B. Bottle manufactured for the Chemist, Druggist, or Medical Profession.

Only faultless materials are used, and the utmost care exercised throughout the manufacture.

The vital importance of accuracy in contents, corkage and graduations is the first consideration in the manufacture of U.G.B. Bottles, and constant watch and inspection is kept to ensure that these essentials are absolutely correct. Appearance and finish are always consistently good.

You may place orders for U.G.B. Bottles of all kinds with the greatest confidence.

**UNITED GLASS BOTTLE**  
MANUFACTURERS • LIMITED

Head Office :

40-43 NORFOLK STREET, STRAND, W.C.2.

Telephone : Central 8080-8089 (10 lines).

Telegrams : "Unglaboman, Estrand, London."

Works :

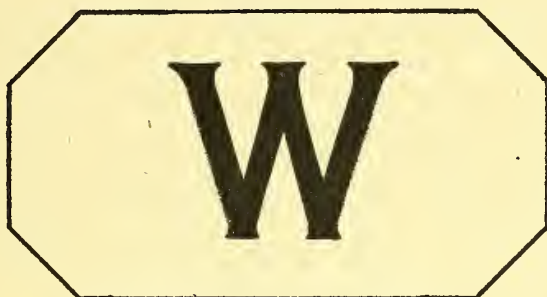
Charlton, London ; St. Helens, Lancs. ;  
Castleford, Yorks ; Hunslet, Leeds ; Sea-  
ham Harbour, Durham

This mark on our bottles is the  
guarantee of accuracy of capacity  
and graduations. There is  
no better bottle manufactured.





Registered



Trade Mark.

# DISPENSING BOTTLES

— ARE —

## Entirely free from Lead and Arsenic

### SAFETY FIRST

**T**HE glass is made only from fresh pure materials and is founded in covered crucibles. This is not a cheap way of making bottles, but it ensures that the glass is pure and will not affect the medicines chemically.

Cheap bottles are often made by re-melting old and waste glass collected from different sources. The bottles so made may have a very deleterious effect on the contents, and Pharmacists should beware of this danger.

The pre-eminence of the **(W)** bottles has been a recognised fact with the pharmaceutical profession for many years, and the progressive chemist cannot afford in these days of keen competition to be without them. The appearance and safety of his dispensing bottles are of vital importance.

:: SOLD BY ALL THE LEADING WHOLESALE HOUSES. ::

## WOOD BROTHERS GLASS COMPANY, LTD.

(EST. 1828)

Barnsley

-

-

-

-

-

England

## For **GLASS BOTTLES**

Write to

*Fred<sup>k</sup> Youldon*

Formerly proprietor of E. YOULDON. Established 1840.

PORTLAND HOUSE,

73 Basinghall Street, LONDON, E.C.2.

'Phone: London Wall 3529.

Wires: "Youldon, Stock, London."

For Cartons & Folding Boxes

**BOXFOLDIA LTD.**

LEA ACRES BIRMINGHAM

### REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply

**GOLD LEAF AND GOLD POWDERS**

WHOLESALE ONLY

**E. WINTER & CO., LTD.**

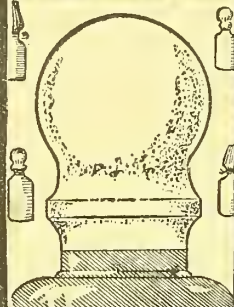
Head Office: 64 Cheapside, London, E.C.2. Telephone: Central 985

## BOTTLES.

I solicit your enquiries for MEDICAL FLATS in all sizes, plain and graduated, MEXICANS, POISONS, KALIS, LIMES, VIALS, CANNONS, OVALS, BRILLIANTINES, in all shapes. SCREW JARS, TABLET BOTTLES, etc. etc. All bottles used in perfumery and chemist trades. Special shapes made.

Wholesale quantities only.

**VAN DER HOEKS, 321/23 Bank Chambers, 329 High Holborn, LONDON, W.C.1.**



**VISKAP**

SELF - FIXING  
BOTTLE CAPS

Transparent, Opaque,  
or Coloured.

From the Manufacturers:  
**THE VISCOSE  
DEVELOPMENT Co., Ltd.**  
Viskap Works,  
BROMLEY :: KENT



(Regd.)

**CAPS YOUR BOTTLES AS  
THEY SHOULD BE CAPPED**

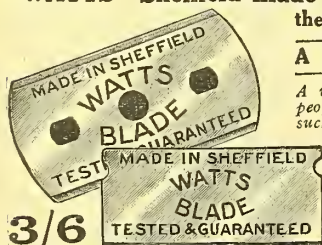
Trial tin sufficient to cap 500 bottles, 6s. 9d. d.f.

**'ACELTA' CAPPING CO. Ltd.** 185 Princess St.,  
MANCHESTER

Assist British industry by recommending the  
**'WATTS' Sheffield-made Safety Razor Blade,**  
the blade of *super-keenness*.

A counter display will help.

A user writes: "Can't understand  
people buying foreign blades when  
such as yours are obtainable."



**12 Perfect Blades  
in Every Dozen.**

For Gillette-Type and  
Autostrop-type holders

Sole Manufacturers: **JOHN WATTS,**  
Dept. 3, LAMBERT WORKS, SHEFFIELD.  
London: 24, REDCROSS ST., E.C.1.  
Established over 150 years.

**3/6**  
per doz.  
allowing  
**50% PROFIT**  
on cost for  
the dealer.

**VERY SPECIAL PRICES**  
TO WHOLESALE & LARGE DEALERS  
OF

**GENUINE  
Gillette  
BLADES**

(U.S.A. AND CANADIAN.)

WRITE FOR DETAILS IMMEDIATELY TO

**WARDS of WARRINGTON**

The Largest Gillette Suppliers in Great Britain.



# GLASSWARE



## LABORATORY GLASS AT LOW CLEARANCE PRICES

We have large stocks of all kinds of Laboratory Glass which must be cleared owing to the warehouse accommodation being required. The quality is sound and they are being sold at low clearance prices. Limited space only allows of a few examples being given, but we can supply over a dozen kinds of Laboratory Glass at correspondingly low prices.

The first Bargain List appeared last week.

### DROPPING BOTTLES (Amber).

	$\frac{1}{2}$ -oz.	1-oz.	2-oz.
Per gross	12/6	15/-	18/6

### DROPPING BOTTLES (White).

	$\frac{1}{2}$ -oz.	1-oz.	2-oz.
Per gross	11/6	14/-	17/-

### RETORTS (without stopper).

	125 cc.	250 cc.	500 cc.	1000 cc.
Per dozen	4/-	5/-	6/-	10/-

### RETORTS (with stopper).

	250 cc.	200 cc.
Per dozen	7/6	11/6

### SPHERICAL FUNNELS (with stoppers).

	50 cc.	100 cc.	250 cc.	500 cc.
Each ..	10d.	1/3	2/-	2/6

### CYLINDRICAL SEP (without stopper).

	50 cc.	100 cc.
Each ..	9d.	1/-

### CYLINDRICAL (with stopper).

	100 cc.	150 cc.	200 cc.
Each	1/3	1/6	2/-

### MALE SYRINGES, Large quantity.

	$\frac{1}{2}$ -oz.	1-oz.	2-oz.
Per gross	15/-	18/6	15/-

### GLASS TAPS, Burette. Per dozen, 6/-

	Two-Way	1 mm.	3 mm.
Per dozen	6/-	7/-	

### CYLINDRICAL MEASURES (grad. on foot)

	50 cc.	250 cc.	500 cc.	1000 cc.
Each	1/3	2/-	2/6	3/-

### CYLINDRICAL MEASURES (grad. and stoppered).

	100 cc.	250 cc.	500 cc.	1000 cc.
Each	1/9	2/6	2/9	3/6

### TEST TUBES.

	Gross.		Gross.
8 × 1½	12/6	6 × ¾	7/-
7 × 1½	9/-	6 × ¾	6/-
8 × 1½	10/-	6 × 1	7/6
7 × ¾	8/-	5 × ¾	6/-
6 × ¾	6/-	2 × ¾	2/6
7 × ¾	8/-	Nests of 6 tubes, 4d. nest	

Send your enquiries to-day, all Orders given immediate attention.

# JULES LANG & SON



*The Glass Specialists*  
**CHARLTON PLACE**  
**ISLINGTON LONDON N.I.**



(OPPOSITE AGRICULTURAL HALL.)

TELEPHONES: NORTH 2770-2 (3 lines).

TELEGRAMS: "ASSORTED," PHONE, LONDON."

CODES—A.B.C. 5th Edition, SCOTT'S 10th Edition (1906), and Bentley's Complete Phrase Code.

**QUALITY MAKERS of**

**Malt Ext. and**

All packings.

**Malt & Oil**

**C. Tolkien & Co.** Factory & Maltings — Apollo Works, Blackburn.  
Offices & Warehouse—Commercial Mills,

Established 1886.

BELFAST—31 Antrim Road.

# ATKINSON & BARKER'S INFANTS' PRESERVATIVE

THE BEST AND SAFEST INFANTS'  
MEDICINE OF OVER 120 YEARS' STANDING.

Prices and Terms on application to R. BARKER & SON, Ltd.  
13 Wesley St., C.-on-M., MANCHESTER.

**DOES  
NOT  
CONTAIN  
any  
SCHEDULED  
POISON.**

**IRVONA**

THE MOST POPULAR NERVE TONIC  
AND FLESH BUILDING TREATMENT.



A large and regular advertising campaign to support the sales of Irvona is guaranteed, and every chemist should carry stock and let the public know that he does so in order to share in the growing boom in this excellent product. Neat and attractive Show Cards, 11" x 4½", sent on application.

The trade prices are :—

1/3 size "IRVONA,"	12/- per doz.
5/- "	48/- "
12/ " "	115/- "

The old sizes (3/- and 15/-) have been withdrawn, and any chemist still having stock of these should return them to me. They will be credited in full and exchanged for the new sizes.

IRVOLAX (the safe aperient) is also being asked for, and the prices are 1/3 size 12/- per dozen: 3/- size 29/- per dozen.

Obtainable through the usual wholesale houses, or direct against cash or usual trade references.

**P. J. WILLIAMS**

27 Finsbury Street, LONDON, E.C.2

**G. A. LEJEUNE** 28A CHANDOS ST.  
LEICESTER.

*SPEED UP SALES  
WITH  
"LEJEUNE"  
SHOWCARDS*

## NURSE HARVEY'S MIXTURE

A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the retailer has a profitable return on a quick turnover.

For Direct Terms apply to—

**OSCAR SCRUTON & CO., YORK**



# "A POINT FOR REFLECTION."

**A**T a recent conference of manufacturers a well-known Advertising Consultant made a statement, in the course of an address on "ADVERTISING A NEW PRODUCT," that the wrapper or carton came second in importance only to the article itself.

This is a truth we have been broadcasting for many years, and we were recently informed by one of our clients that a carton we had designed and printed had contributed more than any other factor to break down "DEALER RESISTANCE."

Write to-day for a consultation or submit your enquiries through the post.

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& SONS, LTD.**

CHEMISTS' PRINTERS,  
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Advertising Matter of every  
description.

**224 BURLEY ROAD  
LEEDS.**

"GRAMS:  
"IDEAS."

"PHONE:  
LEEDS 26674

Even  
**if you try,  
you can't  
buy better Malt Extract**

WRITE TO-DAY  
FOR SAMPLES  
& PRICES.

**MALT EXTRACT**  
AND  
**MALT EXTRACT  
WITH COD LIVER OIL**

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**One Wholesaler says :**

"We have packed over 250,000 jars and containers and not had a single package returned."

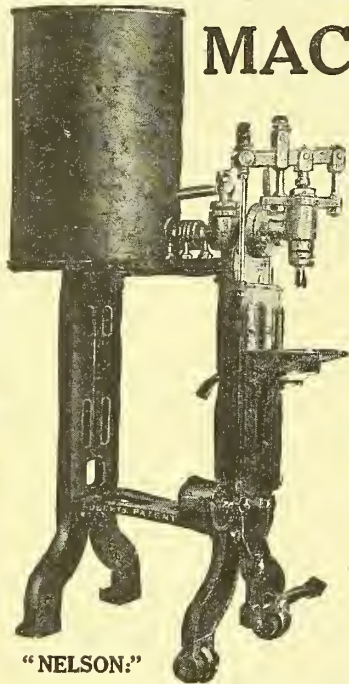
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**Jeffreys Miller & Co. Ltd.**  
Leyland Mills,  
**WIGAN.**

"PHONE :  
WIGAN 327.

WIRES :  
"MALTUM, WIGAN."

## ROBERTS' ORIGINAL PATENT BOTTLE-FILLING MACHINES



Don't waste money on imitations, buy **Roberts' Machines** which actually **Created the Records** for

**CLEANLINESS  
SIMPLICITY**  
and **Rapidity** in  
Bottle Filling.

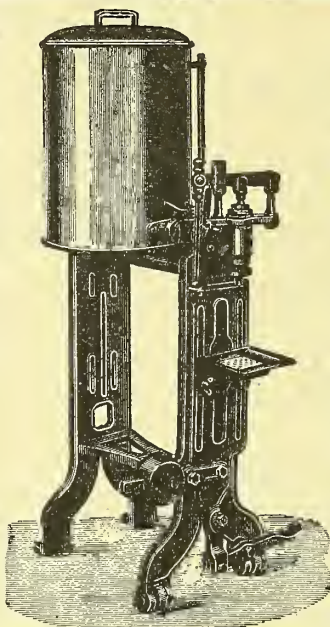
Write for new  
Price Lists.

NOTE the Address :  
**ROBERTS' PATENT  
FILLING MACHINE CO.  
33 ROUNDCROFT ST.  
BOLTON.**

Our latest patent  
"Alpha," price **£12**,  
will fill 10 gross bottles  
per hour.

Write for Particulars.  
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"NELSON:"



## JACKSON'S "EXPRESS" Bottle Filling Machine - -

THE FASTEST,  
CLEANEST & SIMPLEST.

Average Speed  
1,000 Bottles per hour.

Specially good for—  
Emulsions, Hair Oil,  
Hair Restorer, Dyes,  
Lacquers, Essences,  
Extracts, Castor Oil,  
Camphorated Oil,  
Glycerine,  
Toilet Preparations,  
Veterinary Medicines  
and Patent Medicines  
of all kinds.

Used by many of the  
largest Wholesale Chem-  
ists and Druggists, who  
write:—"There is no better filling machine," "An excellent  
machine," "A great help—Average speed 1,000 bottles per hour."

PRICE, with our latest improvements  
and nickel-plated fittings, - **£20**

Also Filters, Asbestos, Pumps, Corking & Capsuling Machines, &c.

**JOHN P. JACKSON & CO. Ltd.** ENGINEERS and  
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Filter

POSTLIP  
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SQUARES  
CIRCLES  
FOLDED  
ROLLS

WHITE  
GREY  
PLAIN  
ANTIQUE  
EMBOSSED  
CRINKLED

SAMPLES  
FREE



*Evans, Adlard & Co. Ltd.*  
(Postlip Mills, Winchcombe, R.S.O. Glos.)

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Combined or Separate Machines, for Hand or Power.



UNEQUALLED FOR  
EFFICIENCY AND  
DURABILITY.

BALL MILLS  
GRINDERS  
DRYERS

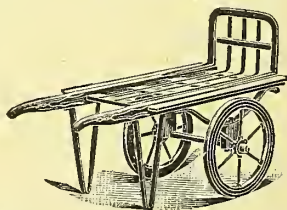
**HIND & LUND, LIMITED,**  
ATLAS WORKS, PRESTON.

Established 1791.

[11]

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for all  
Purposes



Write for List  
C.D. 222.

**W. B. STUBBS & SON** (Estab. 1836),  
Manufacturers of Trucks and Handcarts of every description,  
Progress Works, HAWKSWORTH, NOTTS.



## TRUTH IN ADVERTISING

**2,000 BOTTLES**  
OF  
**INFLUENZA MIXTURE**  
**SOLD IN ONE WEEK!**

### **ABSOLUTE PROOF**

THAT THE

### **INFLUENZA MIXTURE**

we pack in thirteen different styles is the most efficacious of all Influenza specifics

COMES FROM

**ONE MIDLAND CHEMIST**

WHO

**SOLD OVER 2,000 BOTTLES**  
during the **ONE WEEK** ending Feb. 16th, 1924

8 oz. Unstamped Styles - 8/- per doz.  
7/6 per doz. in Gross Lots.

8 oz. Stamped Styles - 11/- per doz.  
10/6 per doz. in Gross Lots.

#### LARGER SIZES

	12 oz.	16 oz.	20 oz.
Unstamped .. ..	11/-	12/6	14/6 per doz.
Stamped .. ..	17/-	18/6	20/6 ..

AMPLE SUPPLIES OF SELLING AIDS SUPPLIED, including:

**LANTERN SLIDE** bearing Chemist's name and address and above arresting figure of "Sneezing man" given free with orders for 6 dozen. Brings wonderful results when shown at your local Cinema.

**ELECTRO** (also of above "Sneezing man") gladly loaned to all our chemist friends ordering six dozen. Invaluable in local newspaper advertising.



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**CAN YOU AFFORD TO BE WITHOUT THIS**

**100 % PROFIT BEARER**

WHICH, PREPARED FROM A TIME-HONOURED FORMULA, ENJOYS SUCH

**AMAZING SALES**

**?**

Show Cards. "Sneezing Man" Border Paper. "Cut-Out" Stand to display One Bottle. "Stick-In" Show cards, etc.

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*Packed Goods Specialists*  
**BIRMINGHAM.**

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*Principals:*

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Entries now being received for full course  
commencing - OCTOBER 8th, 1924.

For full particulars apply to the Principals,  
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*Principals*—HENRY WOOTTON, B.Sc. C. W. GOSLING, Ph.C.

- |           |  |
|-----------|--|
| Oct. 8th. | Nine Months' Course (Minor)            |
| „ 8th.    | Six Months' Course (Part I or Part II) |
| „ 8th.    | Three Months' Revision Course (Minor)  |
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MANY SUCCESSES IN THE EXAMINATIONS!

Your Opportunity to

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Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.), or the National Association of Opticians (F.N.A.O.).

Write for full particulars—

C.A. SCURR, B.Sc., M.P.S., F.S.M.C., F.B.O.A., F.I.O., F.N.A.O.  
**50 High Street BARNET**  
(N.Z. Representative: C. AITCHISON, PALMERSTON Nth.)

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Principal: H. LUCAS, Ph.C., F.C.S.  
assisted by a fully qualified and competent staff.

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A new scheme of Evening Classes has been arranged and will start on **OCTOBER 15th**. They will be held on **WEDNESDAY and THURSDAY** Evenings, 6.30—9, and the Fees are from 1 Guinea per Term of 3 months.

**Full Time Classes** begin on October 9th. Fees 30 Guineas for full nine months' Course.

For all particulars apply The Principal.

## LONDON HOSPITAL MEDICAL COLLEGE AND DENTAL SCHOOL.

THE WINTER SESSION WILL OPEN ON WEDNESDAY, OCTOBER 1st. The Hospital is the largest in England, 948 beds are in constant use. Last year the number of in-patients, 17,977, out-patients, 119,749—attendances, 616,169; dental patients, 5,377—attendances, 19,134; major operations, 7,543.

THE MEDICAL COLLEGE AND DENTAL SCHOOL are essentially modern, with large laboratories equipped with the latest and most approved appliances. The Staff is so large as to permit of individual attention being paid to all students.

RESEARCH FUNDS of over £26,000 give unrivalled facilities for medical research.

APPOINTMENTS. Numerous appointments are made annually from students of the College recently qualified.

SCHOLARSHIPS AND PRIZES. Scholarships and prizes amounting to £784 are awarded annually, including 4 entrance scholarships.

CLUBS' UNION. Athletic ground of over 13 acres; Students' Hostel, etc. For prospectus and particulars apply to the Dean (Professor William Wright, M.B., D.Sc., F.R.C.S.) who will be pleased to make arrangements for anyone wishing to see the Medical College and Dental School, Mile End, E.1.

## WOOLWICH POLYTECHNIC

Recognised Evening Classes in  
**CHEMISTRY, PHYSICS and BOTANY.**

Full particulars on application to Principal.

## ESSENTIAL OILS THEIR CHEMISTRY AND TECHNOLOGY.

Special Courses of Lectures on the above will be given during the Session 1924-25 in the Chemistry Department of the Borough Polytechnic Institute, Borough Road, S.E.1, on Wednesday evenings at 7 p.m., commencing 1st October, 1924.

Lecturer - C. T. BENNETT, B.Sc., F.I.C., Ph.C.  
The Courses in Inorganic, Organic and Technical Chemistry commence **MONDAY, 22nd September, 1924.**

For further particulars apply to J. W. BISPHAM, Principal.

## LONDON COUNTY COUNCIL

### Norwood Technical Institute

Knights Hill, West Norwood, S.E.27.

Afternoon and Evening Classes, with laboratory work, are held at the above named institute in preparation for Part I of the Qualifying Examination of the Pharmaceutical Society. Fee for full course for students residing in the Administrative County of London fifteen shillings. Single subjects at reduced rates.

A detailed prospectus can be obtained from the Principal.

JAMES BIRD,  
Clerk of the London County Council.

## BRITISH OPTICAL INSTITUTE Ltd.

(College of Optics),  
FERN LODGE, 20a GROVE ROAD, BRIXTON, S.W.9.

### COMPLETE TRAINING FOR THE SIGHT-TESTING OPTICIAN.

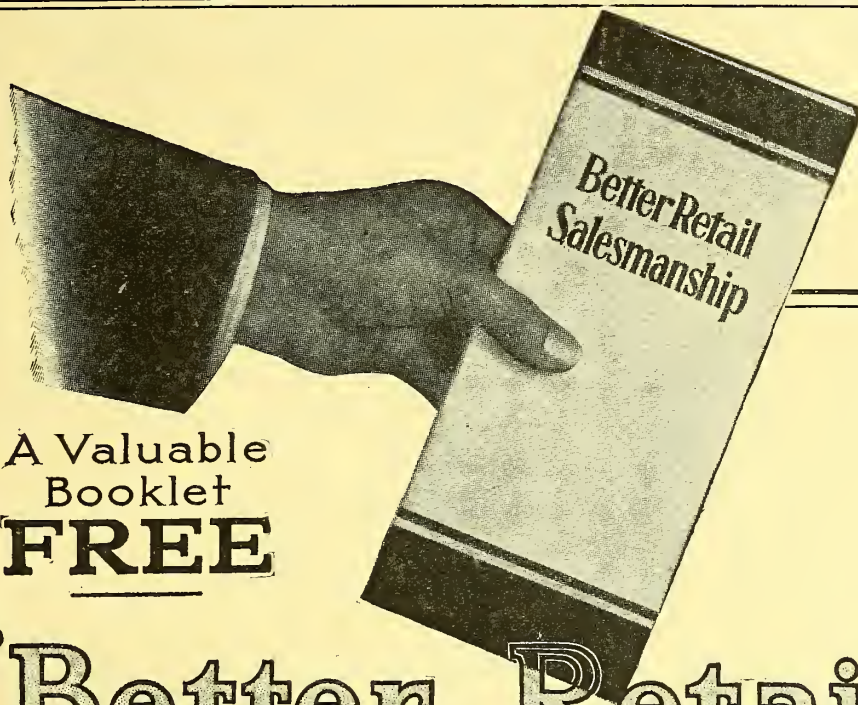
Successful Postal Courses in preparation for the recognised Optical Examinations include special facilities for acquiring a sound knowledge of Optical Work in all its branches.

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A special feature of the Scheme of Instruction is the Clinic held twice a week, when Students have the opportunity of seeing and handling actual cases.

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Stock Labels to use with your present kind to avoid liability owing to the altered constituents.

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### Thoroughly Overhauled and Rebuilt

are sold under the Company's full guarantee at reduced prices.

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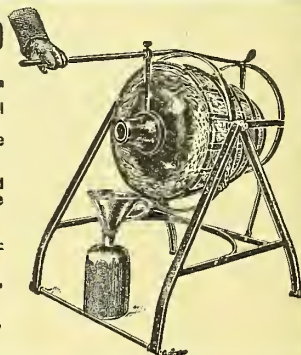
Dept. R.2, The National Cash Register Co. Ltd.  
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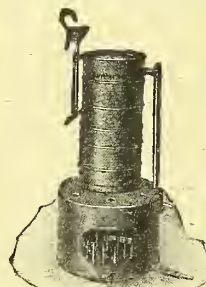
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The Carboy can be tipped to any position with one hand.

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LIMITED,  
Carboy Hamper Manufacturers,  
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Brown's Stills are perfectly automatic. Can be run night and day without attention. Patented in U.K. and Continental Countries.

Extraordinarily efficient and economical. Made for gas, steam, oil or coke fire heating.

*Full particulars and prices free on application.*

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The tendency of manufacturers is to confine their attention to the work on which they are most successful. Partly by intention and partly by chance they eliminate the work that does not suit them. And so, eventually, they become specialists.

*We are successful specialists on long runs for labels and wrappers.*

Our work is good and our prices save you money ; to specialise is to reduce costs.

A quotation only costs you the trouble of sending an enquiry.

*Write  
Dept. C.*

## The Berkshire Printing Co. Ltd.

King's Road, Reading.

## SALVO PETROLIA

The Perfection of Petroleum Jelly

MANUFACTURED SOLELY BY

**THE DEE OIL COMPANY, Ltd.**

D 23/24, EXCHANGE BLDGS., LIVERPOOL.

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Other Grades

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UPRIGHT CENTRE CASES, WALL CASES,

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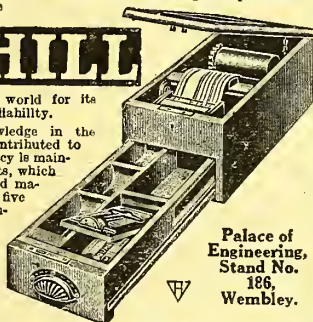
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Bright Sparkling Results that will help you Build Business. Moderate Charges. Wholesale Terms. Unfailing Service. Write for List and Terms.

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We buy overstocks of cameras for cash and offer big prices.



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(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

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**SPECIALITIES.**—Gums Adrabican  
Tragacanth as Imported or finely powdered

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For GREY HAIR

PRICES:

8d. Trial phial,  
per doz. 5/9  
4/6 Large size,  
per doz. 42/-

TATCHO-TONE CO., 5 Gt. Queen St., Kingsway, W.C.



U.S.A. (12's)

31/8 box.

U.S.A. (5's

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28/6 box.

3 boxes, 83/9

Canadian (6's or 12's) 27/- box; 3 boxes, 78/9; 5 boxes, 130/-.  
Old Type 21/- Genuine Gillette Razors (these are not the 5's lines),  
36/- doz. Assorted. Perfect goods.

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Blades, 36/- box; Strops, 20/- doz.

"EVER-READY" BLADES without Free Razors, 28/6 gross;  
with 24 Free Razors, 30/6 gross; Without Free Razors,  
1/2 gross, 14/6 gross; With 12 Free Razors, 1/2 gross, 16/-  
gross. Monkey Strops, 3/9 each.

"TUCKMAR" Straight Razors, 157 1/2 White Handle, 42/- doz.  
27 1/2 White Handle, 42/- doz. 27 1/2 Black Handle, 37/6 doz.

Obtainable from Leading Wholesalers or direct from us.

All goods post paid. Net Cash with order.

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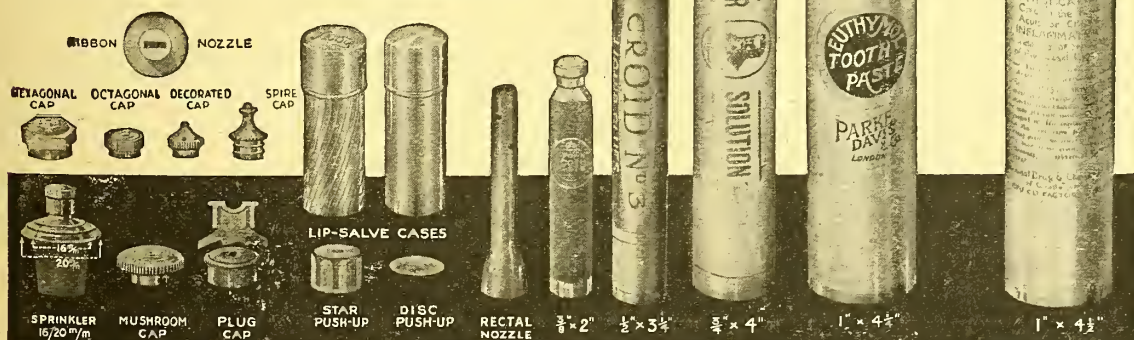
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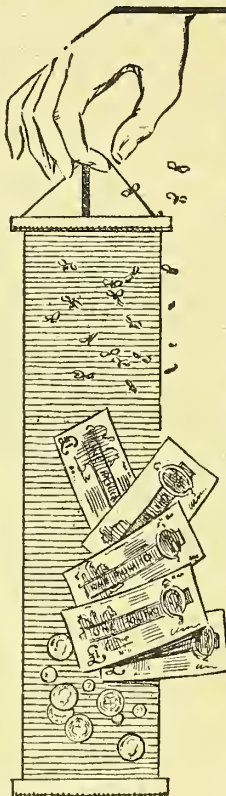
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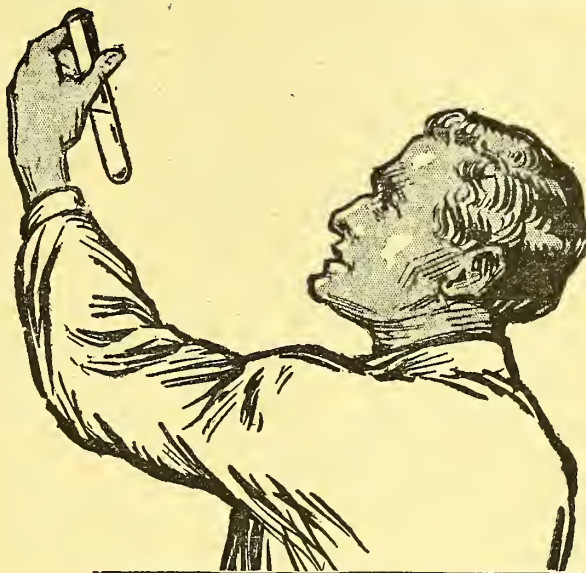
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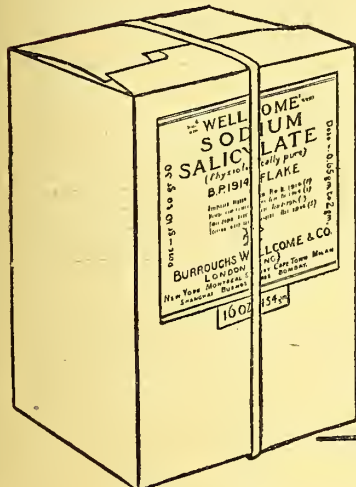


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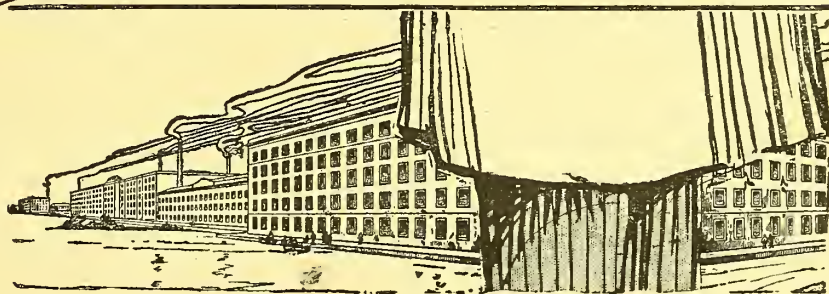
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## Known, Admitted, and Approved Remedies

FOLLOWING the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1925, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference and proprietary rights are not claimed. A clear indication must be given, on the label of the medicine, of the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the British Pharmacopœia, and the *Diary*, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent not later than October 11, addressed to the Editor, C. & D., 42 Cannon Street, London, E.C.4.

## English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

### Manchester Chemists' Exhibition

Sir William Veno will open the Manchester Chemists' Exhibition on September 29, at 3 p.m. The City Exhibition Hall, in which it is to be housed (as in 1922), is the largest exhibition hall in the provinces, and chemists from all parts will no doubt be present. Every chemist throughout the United Kingdom receives a special invitation and two free tickets to attend. The Manchester Pharmaceutical Association, in addition to promoting the essay competition referred to in our issue of August 30, will have a "welcome club and tea room" in the hall. Window-dressing competitions will again be a feature, and the Retail Pharmacists' Union are to hold a meeting during the week.

### Golf—Northumberland v. Durham

The return golf match between Northumberland and Durham was played on the Cleadon course, South Shields, on September 3. The course is a bracing one



Back row (left to right): Messrs. Iredale, Armstrong, Armstrong, jun., Carr, Harrison, Rowell, and Bell.  
Middle row (left to right): Messrs. Whitehead, Thompson, Harrison, jun., Michelson, Thursfield, Anderson, and Brown.  
Front row (left to right): Messrs. Brooks, Miller, and Gilchrist.

to play on, stone walls providing several "thrills." The matches were keenly contested, Durham winning by 7 to 2. Two foursomes played after tea were won by Northumberland. Details are as follows:—

<i>Northumberland</i>			<i>Durham</i>		
A. L. Joy ... ..	...	0	R. Thursfield (3 and 2)	...	1
J. Bell (3 and 2) ..	...	1	T. Armstrong ... ..	...	0
E. Thompson (3 and 1) ..	...	1	F. Brooks ... ..	...	0
A. Miller ... ..	...	0	F. Harrison (5 and 4) ..	...	1
W. Gilchrist ... ..	...	0	R. Anderson (6 and 5) ..	...	1
W. Cosans ... ..	...	0	E. Michelson (5 and 4) ..	...	1
G. Iredale ... ..	...	0	F. Armstrong (3 and 1) ..	...	1
— Rowell ... ..	...	0	J. G. Harrison (2 up) ..	...	1
J. Carr ... ..	...	0	— Brown (6 and 5) ..	...	1

### Associations Visit Vinolia Works

On September 3, at the invitation of the Vinolia Company, a party of pharmacists and friends from Manchester, Salford, Oldham, Stockport, and Rochdale, numbering about 180, left Manchester Central Station for Liverpool, where more pharmacists and friends from the Bolton and other associations joined. At Rock Ferry Station eight motor charabancs were awaiting the party, which was then conveyed to the Lady Lever Art Gallery. Received by Mr. F. A. Lawman, vice-chairman of the Vinolia Company, the party, under the guidance of Mr. Sidney H. Pavière, was conducted through the various rooms where rare and precious works of art were pointed out and the history explained. A group photograph was



afterwards taken by the staff photographer and Mr. John Cleworth. The party then proceeded to inspect the Port Sunlight War Memorial, on the way to Hulme Hall, where Mr. C. W. Barnish, representing Lord Leverhulme and the directors of Lever Brothers, Ltd., awaited them. An excellent lunch was served, and a speech was made by Mr. C. W. Barnish, who stated that Lord Leverhulme had expressed his regret that he was unable to be present. Mr. F. A. Lawman proposed the toast, "Our Guests," and Mr. William Kirby, M.Sc., thanked the directors of Lever Brothers, Ltd., and Vinolia Co., Ltd., for their hospitality. Mr. F. W. Bates, J.P., also responded. After lunch the party was taken a tour of the factories and works of Lever Brothers and Vinolia Co., where they inspected many of the processes. Tea was served in "the Dell," a miniature part, and a "wireless" programme of music was much enjoyed. Further acknowledgments were made by Mr. R. G. Edwards, President of the Manchester Pharmaceutical Association, who proposed a vote of thanks, and Mr. Blain, President of the Bolton Pharmaceutical Association, seconded. Mr. E. H. Simmons, member of the Pharmaceutical Council, also spoke. Mr. F. A. Lawman suitably replied. The drive of several miles through the Wirral Peninsula and on to Rock Ferry Station was the grand finale of a day which will be remembered with pleasure. Every visitor was presented with a handsome souvenir book of the history of Port Sunlight.

#### Cricket—Southampton v. Portsmouth

The return match between Southampton and Portsmouth chemists was played at Stubbington on September 4, and ended in a narrow victory for the visitors. Full scores:—

Southampton		Portsmouth	
Pickup, b Smith	17	Rhodes, c Wilson	1
Morris, run out	16	Nightingale, c and b Morris	5
Adams, b Carver	3	Simms, c and b Trussler	3
Hutt, c and b Barlow	3	Barlow, c and b Pickup	16
Pearson, Sen., b Smith	7	Smith, b Pickup	14
Trussler, c and b Carver	0	Carver, c and b Trussler	12
Wilson, b Carver	10	Pearson, b Wilson	1
Childs, not out	1	Stuart, c and b Wilson	1
Darrington, b Smith	1	Gregory, c and b Trussler	1
Pearson, Jun., b Carver	0	Upton, b Trussler	0
Newton, b Carver	0	Fox, b Trussler	5
Tidbury, b Carver	0	Brown, not out	2
Extras	10	Extras	0
Total	68	Total	61

At the tea interval the players and their friends enjoyed the hospitality of Mr. Smith, President of the Portsmouth Pharmacists' Association.

#### Birmingham

Broad Street was re-opened for traffic on September 6. The time taken over the reconstruction has caused bitter complaints from business people.

Mrs. Alcock, wife of Mr. F. H. Alcock, F.I.C., Ph.C., has again secured several certificates of merit for her exhibits of home-made wines and preserves at local horticultural shows.

#### Liverpool

Mr. J. L. Hirst has rounded off a holiday by a visit to Wembley.

Complaints are made of delay in the delivery of American preparations.

Many who could not attend the funeral of Mr. T. Fell Abraham, Ph.C., on September 6, sent notes of apology and condolence.

The Liverpool Chemists' Association will inaugurate the winter session on October 8 with a lecture on "The Chemistry of Food," by Mr. W. J. Melhuish, D.Sc. The Royal Institution is undergoing a thorough renovation.

For Liverpool Association pharmacists attending the Leeds Exhibition a saloon carriage will be attached to the 9.30 a.m. (Lime Street) train and the 7.45 p.m. return on September 17. Mr. Hirst is in charge of the arrangements.

#### Miscellaneous

SUMMER TIME ends at 2 a.m. (Greenwich time) on Sunday, September 21.

FIRE.—An outbreak of fire occurred on September 10 at the premises of the Toilet Supply Co., Harrow Road, London, W. The flames reached to a great height, and considerable damage is reported.

IN THE COURTS.—At Blackpool Police Court, on September 4, Mandall & Co., Ltd., manufacturing chemists, Newcastle-on-Tyne, were fined 20s. for failing to notify a change of colour of a motor-van.

REPARATION DYES FOR SALE.—During the official year 1924-5 the Board of Trade anticipate having 1,300 tons of Reparation dyes for sale in this country. The prices range very widely from 10d. to 64s. per lb. The latest average of the prices credited to Germany for Reparation dyes is slightly under 2s. per lb.

ROYAL COMMERCIAL TRAVELLERS' SCHOOLS.—The seventy-ninth annual festival of the Royal Commercial Travellers' Schools will be held in December. A visit of intending stewards is being made to the schools at Pinner on September 27, and any commercial travellers who would like to be associated with the work are invited to join the party. The secretary, Mr. W. P. Lees, 17 Cheapside, London, E.C.2, will be glad to give information at any time about the schools.

EMBEZZLEMENT CHARGE.—At Bow Street Police Court, London, on September 5, Herbert Leonard Hastings (45), chemist's assistant, Aberdeen Park Road, High-bury, N., an American citizen, was charged on remand with embezzling, on August 27, the sum of £1, the money of his employers, Morgan Davis, Ltd., chemists, Coventry Street, W. He was now further charged with embezzling on other dates sums of 10s., £1 14s., and £2 15s., and with stealing, between December 1, 1923, and August 28, 1924, two boxes of powder and other goods, the property of his employers. Two police officials and Mr. T. Morgan Davis gave evidence, and the accused was remanded on bail.

POISONINGS.—An inquest was held at Ashford, Middlesex, on September 5, on the body of John J. Millard, builder, whose death was found to be due to poisoning by potassium cyanide. After a verdict of "Suicide during temporary insanity" had been given, a son of the deceased asked the coroner whether some caution could not be administered to the chemist. The coroner, however, said that no blame attached to the chemist, as the register had been properly signed.—A verdict of "Death due to poisoning by chloral hydrate" was returned at an inquest at Skipton, on September 10, on the body of Mr. C. F. D. Long, a Cambridge graduate who was found dying in his house at Ingletton.

SALE OF FOOD AND DRUGS ACTS.—The medical officer of health for Holborn (London) states, in his recent annual report, that one prescription analysed was found to be deficient in bismuth carbonate to the extent of 11.1 per cent. It was considered that a warning would be sufficient. All the so-called chlorodyne lozenges examined were free from morphine, their description being misleading. During the year two samples of chlorodyne were purchased from retail chemists. The first was found to contain morphine equivalent to 0.67 gr. of anhydrous morphine per oz.; in the second case, the amount present was equivalent to 1.32 gr. of anhydrous morphine.

PRIVATE ARRANGEMENT.—A meeting of the creditors of Mr. William Randolph Cameron, Oswaldtwistle, optician, late chemist, was held recently at Accrington, when a statement of affairs was submitted disclosing liabilities £525 5s. 6d.; there were also fully-secured creditors for £150. The assets consisted of: Fittings, £37; machinery, £25; stock, £56; book debts, £10; surplus from securities, £75. It appeared that the debtor formerly carried on business as a chemist at Union Road, Oswaldtwistle, but that business was sold in May of the present year. The household furniture was claimed by Mrs. Cameron. The matter is being dealt with under a deed of assignment to Mr. E. H. Simpson, 27 Victoria Street, Blackburn, as trustee.



## Irish News

### Belfast

Mr. Edmund A. Richey, R.D., will open a shop shortly at 368 Newtownards Road, Belfast. Mr. Richey was formerly with Mr. Horatio Todd, M.P.S.I., 72 Hollywood Road, Belfast.

Belfast pharmacists are looking forward to a visit early in October from Sir Thos. Robinson, the well-known Dublin pharmacist, who is coming to the city in his capacity as President of the Dublin Rotary Club.

At Belfast Corporation meeting on September 1 an application of Mr. Frank Taylor, manager, Charles Tennant & Co., drysalts and chemical manufacturers, for a licence under the Poisons and Pharmacy Act, 1908, was granted.

## Scottish News

### Glasgow

A woman named Conn died in the Western Infirmary, on September 4, from the effect of drinking a quantity of lysol.

Under the auspices of the Scottish Photographic Federation, photographic competitions are being held in connection with the Domestic Welfare Exhibition which is being promoted by Glasgow Corporation and opens in the Kelvin Hall on October 13.

Glasgow Pharmacy Club has decided to hold a whist drive in the rooms at 165 Hill Street, on the first Tuesday in each month, commencing on October 7, at 7.15 p.m.—The golf section of the Club played the third round of the Virol cup over Fereneze course on September 2. The winner was Mr. W. Seivwright, and the runner-up Mr. R. Jack.—The final meeting of the tennis section will be held on September 16 in the courts at Meadowpark Street, Dennistoun.

## Natal Pharmaceutical Society

THE annual general meeting was held in the Royal Hotel, Durban, on July 30. There were present: Mr. Fleming Johnston (chairman), Messrs. R. Gelling, J. S. Moore, A. Sutherland, N. W. Hosking, T. R. Walton, A. M. Fyvie, H. E. Grout, W. T. Ryan, H. R. Hudson, J. Gellately, A. E. Edwards, M. W. Stranack, J. K. Murray, E. Tyson, and J. E. Allen (secretary). The chairman moved an appreciation of the report and work performed by Mr. Murray in his capacity as delegate to the Associated Societies in Capetown. Mr. Murray being absent from the meeting at the time, the chairman extended his remarks later. The secretary read letters from:—

(a) The Town Clerk, Durban, with reference to the Shop Hours Act, to which was attached a copy of the proposed amendment, as under, which was approved:—

Amendment to Section 1 (g) of the Shop Hours By-Laws. 1 (g) Chemists' and druggists' shops to close at 7 p.m. on Mondays to Fridays inclusive, and at 1.30 on Saturdays. Such shops may re-open from 6 p.m. to 7 p.m. on Saturdays, and notwithstanding anything hereinbefore contained may remain open until 10 p.m. on any evening preceding a public holiday, and until 11 p.m. on the evening of the two days (exclusive of Sunday) preceding Christmas Day and New Year's Day.

On Sunday and public holidays such shops may open for medical business between the hours of 10 a.m. and 11 a.m. and 6 p.m. and 7 p.m.

(b) Letter from Professor Narbeth, of the Natal Technical College, regarding the provision of a good set of materia medica specimens.

Mr. Stranack commented on the insufficient training of the students generally, and particularly in the matter of the materia medica section. He proposed that the Society vote the sum of £7 10s., not more, towards the provision of a materia medica section, and that the selection of such be left to Mr. Davis, of the Technical College. Mr. Murray moved that for the period of one year the annual subscription be £2 2s. Seconded by

Mr. Fleming Johnston. The following new members were enrolled, subject to their being registered for the province of Natal: Messrs. S. K. Elgie, G. W. Hay, Eckhoff, Murray, W. E. Bouttell, Louis Jacobs, J. L. R. Tremoulet, M. R. Liddel, Oehley, H. G. Type. The balance sheet was provisionally adopted, not having been audited. Mr. Stranack proposed that the serious condition of Mr. J. W. Cooper commands the sympathy of this Society, and the secretary was instructed to send a telegram of condolence and sincerest hopes for a speedy recovery. Condolence to Messrs. Heynes, Mathew, Ltd., Capetown, on the death of Mr. Frank Matthews. Resolved standing. Mr. Stranack pointed out that the existing Pharmacy Board goes out of office on September 30; that the Board, consisting of five members, two of whom are Government nominees, is to be reconstituted by October 1; three members are, therefore, to be elected by the Natal Pharmaceutical Society. The secretary was instructed to get in touch with the Maritzburg Association in this matter, and a meeting of the Natal Society will be held on or before September 10 to make the necessary recommendations.

### ELECTION OF OFFICERS

*President*, Mr. E. B. Dunkerton, proposed by Mr. Stranack, seconded by Mr. Ryan; *Vice-President*, Mr. J. K. Murray, proposed by Mr. Walton; *Secretary*, Mr. J. E. Allen; *Auditors*, Messrs. V. G. Acton and R. Gelling; *Committee*, Messrs. E. Tyson, W. T. Ryan, N. W. Hosking, T. R. Walton, and H. R. Hudson. Mr. Gelling proposed that the usual honorarium be donated to the secretary; seconded by Mr. Fleming Johnston.

The President (Mr. Fleming Johnston) made a short *résumé* of the year's work, and commented on the extraordinary union of pharmacists throughout the Union, and touched on the results accomplished. He further commented on the fact that there had been a change, inasmuch as the Maritzburg and Northern chemists had formed their own Society, and also remarked on the change of Government, which had been brought about largely by the efforts of pharmacists.

Mr. J. K. Murray spoke of this year as being the greatest on record as regards the work done by pharmacists and pharmacies generally. Every pharmacist had realised his position, socially and politically. Pharmacy, by its united efforts, had raised itself into a force which had not only astonished the Government Ministers, but had welded itself into public opinion by fighting the battle of the stamp tax for the general public. In the initial stages of the combat, said Mr. Murray, General Smuts himself had expressed the opinion that the Society was not strong enough to effect any particular result. Mr. Murray then took the chair. He wished to record his deep appreciation of the services rendered by Mr. Fleming Johnston during the past year in his official capacity as President of the Natal Society.

Mr. Fleming Johnston, responding, touched on the value of Mr. Murray's work as a delegate and representative of the Natal Society. He thought the Natal Society ought to congratulate itself, or be congratulated, on having a man to send who had such a grasp of the situation, and it was to this that no small measure of success had been achieved. Mr. Murray replied, expressing regret that Mr. Dunkerton was not present, but was glad to realise that the work which had been done had been so much appreciated. He felt that such remarks should also apply to Mr. Walton and Mr. Tibbitt, as they deserved to share. He felt that the Natal Society could rest assured of further progress with the new chairman, and expressed the opinion that within six months the work of the Associated Pharmaceutical Societies would be realised. Mr. Fyvie was requested to convey to the Maritzburg Society, "Our Baby," the hearty good wishes of the parent Society. Mr. Fyvie expressed some interest in the new features exhibited by the Natal Society as regards meeting, and thought the Maritzburg Society might work on similar lines. He further suggested that the secretary of the Natal Society report each meeting to the Maritzburg Secretary.



## Legal Reports

**Perpetual Injunctions Granted.**—In the Vacation Court, London, on September 10, before Mr. Justice Talbot, Mr. Gray, appearing for the plaintiffs, J. Goddard & Sons, in eighteen actions, stated these were actions in which the defendants were sued for selling plate powder, manufactured by a Miss Goddard, without distinguishing it from plaintiffs' Non-mercurial Plate Powder. Counsel stated that in nearly all the cases the defendants had agreed to treat the motion as the trial of the action, to submit to a perpetual injunction, and to pay agreed sums as damages. In some, but not all, cases defendants would pay the plaintiffs' costs. In two of the actions the motion would stand over for a week. His lordship made an order in each action as agreed.

**Sequel to Unauthorised Possession Case.**—At Marylebone Police Court, London, on September 8, Mr. Charles Albert Neale, chemist and druggist, Circus Road, N.W., was summoned for having supplied morphine to two unauthorised persons, Patrick J. McKay and Winifred C. McKay (*C. & D.*, August 30, p. 328), contrary to Nos. 4 and 6 of the Dangerous Drugs Regulations of May 20, 1921, as amended by No. 3 of the Dangerous Drugs Regulations of March 19, 1923. In the course of the opening statement for the prosecution, it was mentioned that Mr. Neale had taken the precaution of writing to the address of the supposed prescriber, and received a reply that McKay was under the doctor's treatment, and that the prescription was genuine. The address was the address of McKay's mother, and there was no doubt that Mr. Neale's letter fell into his hands, and that he penned the reply. Mr. H. Glyn-Jones, barrister, who appeared for the defence, urged in extenuation that his client had been deceived by a man whose need for the drug made him particularly cunning. The prescription bore every evidence of having been written by a medical man. There was a proper prescription at one time, and there was no reason why there should not be another. The proper abbreviations were given, and the directions were properly written, the explanation being that McKay had been a medical student. Mr. Neale had been a qualified chemist since 1891, and had been in business nearly thirty years without a complaint. He came before the Court with an unblemished character. Counsel admitted that the defendant did not consult the Medical Register before supplying the drug, and said he thought it was a pity that all chemists did not keep the Register as part of their equipment. The Magistrate: I should think he was obliged to keep a Medical Register. Counsel: Well, s'r, very few of them do. The Magistrate: I think he must satisfy himself that there is such a person in the Medical Register. The magistrate said he had a certain amount of sympathy for the defendant, for no doubt he had been taken in by McKay. His worship dismissed the summons under the Probation of Offenders Act, on payment of £5 5s. costs.

## New Companies

P.C. means Private Company and R.O. Registered Office.

**CRINO CO., LTD. (P.C.).**—Capital £10,000. Objects: To adopt an agreement with Annie L. King and to carry on the business of manufacturers and sellers of the commodity known as "Crinofricto" for removal of hair growth, manufacturers of toilet requisites and general merchants, cabinet-box and packing-case makers, etc. The directors are: G. A. I. Bosanquet, Mrs. Annie L. King, and P. E. Wilson. R.O.: 223 Laurence Pountney Lane, London, E.C.4.

**COX-CAVENDISH ELECTRICAL CO. (1924), LTD. (P.C.).**—Capital £6,000. Objects: To carry on the business of manufacturers and sellers of all kinds of scientific, medical and surgical apparatus and accessories, including x-ray and high-frequency apparatus, light and heat apparatus, Finzen lamps, vibrators, pumps, static machines, nebulisers, transformers and batteries for cautery, light, galvanic . . . electricity and all pur-

poses, etc. The directors are: E. R. G. Greville, E. E. Greville, F. W. Read, and E. H. Willis. R.O.: 105 Great Portland Street, London, W.1.

**BELTONA, LTD. (P.C.).**—Capital £10,000. Objects: To acquire the recipe and full information as to the process of manufacturing and the rights to manufacture and deal in a medical preparation known as "Beltona" and trade-mark No. 446,335; to adopt an agreement with E. Belton; and to carry on the business of manufacturers of and dealers in medicines and medical preparations and drugs, chemists, druggists, chemical manufacturers, etc. R.O.: 71 High Street, Hoddesdon.

## Eno Recreation Club Sports

On July 26 the Eno Recreation Club held its third annual sports meeting on the ground of the City of London School, Exbury Road, Catford, S.E., of which ground the club is about to enter into possession. The official opening will be duly celebrated at a date not yet decided upon; meanwhile, July 26 will no doubt take its place as an important date in the calendar of the House of Eno, and this spacious and delightfully situated playing-field will provide recreation for those for whose use the directors have purchased it. The meeting began at



11 a.m., and continued till nearly sunset, the skilfully composed programme including an excellent luncheon and tea (served in a marquee) and selections by the band of the British Legion (Headquarters Military). The judges were Lieutenant-Colonel F. Allhusen, C.M.G., D.S.O., Major F. Van den Heuval, Mr. A. Taylor, Mr. J. H. H. Boyd, Mr. W. H. Tapson, and Mr. H. C. Fidgeon; and the starters were Major C. W. B. Heslop, Mr. A. Proctor Atkinson, Mr. W. J. Jagers, and Major L. A. Watson Stower. The prizes, which made a handsome display, were distributed by Mr. G. Heslop, senior director of the company, amid scenes of great enthusiasm. Mr. J. H. H. Boyd presided over this part of the proceedings, and made a felicitous speech, dwelling on the co-operation between members of the works and office staffs. The antique chased solid-silver rose bowl, presented by Colonel Swinfen-Brown for ladies' team work, was won by the works team, with 62 points; and the massive silver cup, the gift of Lieutenant-Colonel Allhusen for men's team work, fell to the works team, with a score of 59. Miss P. Targett was the winner of the individual championship prize for ladies; and Mr. G. Goding took the corresponding cup for men, winning five first prizes and two second prizes in eight events. The increase in the number of entrants—the Eno colours, by the way, made an effective contrast with the uniforms of the bandsmen—rendered competition more severe than on previous occasions; and the energetic secretary, Mr. T. H. Draper, must be congratulated on his part in a successful day.



# U.S. Pharmacopœia Revision

(Continued from C. & D., May 24, p. 721.)

PART VI of abstracts of proposed changes in the tenth revision of the United States Pharmacopœia relates to inorganic chemicals not dealt with in Part I, also biological products. The most interesting feature is the omission of formulas in iron liquors, which are almost solely made by manufacturing chemists. Actually the manufacturer makes his product first (not from expensive wire) and standardises it afterwards. The new monographs for liq. ferri chloridi and liquor ferri et ammonii acetatis are tantamount to recognition of manufacture in bulk. The process for making distilled water is also left out, as obviously this is no guide to distillation on a big scale. Whereas the process for making lime water is simplified and cheapened, that for magma magnesiae is elaborate and expensive. Apparently there is to be no end to the modifications for making magnesia creams. However, unlike products in this country, it contains magnesium hydroxide only and in definite amount. New monographs for barium sulphate and monosodium-dihydrogen-phosphate emphasise the growing importance of these products in medicinal practice. Dakin's solution is another addition. The changes in the technique of testing are slight, carrying out the trend towards quantitiveness. Among biological products, desiccated serums are deleted, and there is a general increase in unit strength per c.c., while temperature limits for keeping are lowered.

**ACIDUM PHOSPHORICUM AND ACID. PHOSPH. DILUTUM.**—Ferrous sulphate solution used instead of crystal of ferrous sulphate in test for nitrate.

**ACID. SULPHURICUM AROMATICUM.**—Sp. gr. about 0.94 (instead of about 0.953) at 25° C. Assay changed to addition of excess of normal sodium hydroxide solution to 5 c.c., and evaporation to dryness before back titration with normal sulphuric acid.

**ALUMEN.**—Identity test for potassium alum with test solution of sodium bitartrate made more definite, required to produce white crystalline precipitate within 30 minutes (instead of "sometimes slowly").

**AMMONII BROMIDUM.**—Test solution of ferric chloride used for iodide test (instead of chlorine water).

**AQUA DESTILLATA.**—Process of manufacture omitted.

**BARII SULPHAS** (new monograph).—Barium sulphate ( $\text{BaSO}_4$ ) free from soluble barium salts. In prescribing barium sulphate to avoid confusion with the poisonous barium sulphide or sulphite the title should never be abbreviated. Barium sulphate is a fine, white, odourless, tasteless, and relatively light powder, free from grittiness. Identity tests are included for sulphate and barium. Negative results are required (on 10 gm.) for sulphides, phosphate, free acid or alkali and heavy metals. Limit of water soluble and dilute acid soluble non-volatile matter must not exceed 0.3 per cent., and this is required to be free from soluble barium salts. The test for arsenic is made by triturating 2 gm. of barium sulphate with 5 c.c. of concentrated hydrochloric acid and adding 10 c.c. of freshly-made saturated solution of stannous chloride—no dark coloration to be given within one half-hour.

**BISMUTHI SUBCARBONAS.**—Limit of alkalis raised from 0.003 to 0.005.

**BISMUTH SUBNITRATE.**—In test for limit of alkali dilute hydrochloric acid (2 c.c.) now added before removing bismuth with hydrogen sulphide (acetic acid solution previously used direct). Turbidometric chloride test added.

**CALCI CARBONAS PRECIPITATUS.**—New limit for "magnesium or alkalis" fixed at 0.004 gram (apparently from 1 gram). Tests for heavy metals and soluble impurities omitted.

**CALCI GLYCEROPHOSPHAS.**—New test by drying 3 grams to constant weight, weighing accurately and dissolving in 250 c.c. water. Titration is done first with  $\text{N}/2$  NaOH to phenolphthalein (for added acids), and then with  $\text{N}/2$  HCl with methyl orange as indicator (each c.c.  $\text{N}/2$  HCl = 0.10508 gm. of  $\text{CaC}_2\text{H}_3\text{PO}_4$ ).

**CALX.**—Tests added from magnesium and alkalis.

**IODUM.**—Test for chloride or bromide changed, iodine solution being decolorised and turbidity due to chloride or bromide from 0.25 gram must not be greater than that produced by 0.1 c.c. of fiftieth normal hydrochloric acid.

**LIQUOR CALCIS.**—Directions for preparation considerably changed, about 25 grams of calcium oxide replacing 50 grams

of lime, which is slaked by addition of about 50 c.c. of warm water. The mixture is transferred to bottle of about 4,000 c.c. capacity, 950 c.c. of water added, and the mixture agitated occasionally for half an hour. After settling the clear liquid is decanted and rejected. The bottle is then filled with water, stoppered, agitated thoroughly, and the clear liquid poured off as required. (Previously the magma of calcium hydroxide was washed repeatedly with boiling distilled water until free from chloride as tested by silver nitrate solution.)

**LIQUOR FERRI CHLORIDI.**—The formulas and instructions for making (from iron wire and hydrochloric acid with subsequent oxidation by means of nitric acid) now omitted. A test is added for absence of zinc, lead, and copper, nitrate test is changed (as above), and limit is given (0.1 per cent.) for "salts of the fixed alkalis."

**LIQUOR FERRI ET AMMONII ACETATIS.**—Rubric to read: "It contains ammonium acetate corresponding to not less than 0.6 per cent. nor more than 0.8 per cent. of ammonia ( $\text{NH}_3$ ), and not less than 0.16 per cent. nor more than 0.20 per cent. of iron (Fe)." (Apparently formula and directions to be omitted.) Assay processes included for ammonia and for iron.

**LIQUOR MAGNESII CITRATIS.**—Increase in formula of citric acid from 33 grams to 35 grams. Test for calcium made quantitative (turbidometric). Assay is added for minimum limits of free and total citric acid.

**LIQUOR SODÆ CHLORINATÆ.**—Directions altered so that clear filtrate is tested with test solution of sodium carbonate, and more monohydrated sodium carbonate is added if necessary.

**LIQUOR SODÆ CHLORINATÆ DILUTUS**, Carrel-Dakin solution (new monograph).—An aqueous solution of chlorine compounds of sodium containing not less than 0.45 per cent. nor more than 0.50 per cent. of available chlorine. Preserve the solution in well-stoppered bottles, preferably for not more than seven days, in a cool place protected from light.

Chlorinated lime	...	...	...	20 grams
Exsiccated sodium phosphato	...	...	...	20 grams
Water, a sufficient quantity, to make 1,000 c.c.				

Triturate the chlorinated lime with 400 c.c. of water gradually added until a uniform mixture results. Dissolve the exsiccated sodium phosphate in 400 c.c. of water heated to 50° C., and add this solution to the mixture of chlorinated lime. Shake the mixture thoroughly, and allow it to stand for 15 minutes. Transfer the mixture gradually to a filter, returning the first portions of the filtrate until it runs clear, and when no more liquid drains from the filter, wash the precipitate with sufficient water to make the product measure 1,000 c.c. Diluted solution of chlorinated soda is a colourless or faintly yellow liquid possessing a slight odour. Tests are given for excessive alkalinity and alkalinity "too low." Assay is also included.

**LIQUOR ZINCI CHLORIDI.**—Formula is omitted.

**MAGMA MAGNESIÆ.**—Rubric to read "yields not less than 7.0 per cent. of  $\text{Mg}(\text{OH})_2$ ". Directions and formula are changed (magnesium sulphate replacing magnesium carbonate) as follows:—

Magnesium sulphate	...	...	...	500 grams
Sodium hydroxide	...	...	...	165 grams
Distilled water, a sufficient quantity, to make 1,000 c.c.				

Dissolve the magnesium sulphate in sufficient distilled water to make 650 c.c., place this in a vessel of about 5,000 c.c. capacity, and heat to boiling. Dissolve the sodium hydroxide in sufficient distilled water to make 1,000 c.c., add slowly to the boiling solution of magnesium sulphate, and continue the boiling for thirty minutes. Transfer the mixture to a cylindrical container not less than 5,000 c.c. capacity, and fill with hot distilled water. Allow it to stand until separation has occurred, and remove the supernatant liquid. Continue washing with hot distilled water until the sulphates are practically eliminated, as shown by testing 20 c.c. of the supernatant liquid, acidulated with hydrochloric acid, with test solution of barium chloride. Concentrate the magma by evaporation until it contains 7 per cent. of magnesium hydroxide.

**MAGNESII CARBONAS.**—Colorimetric test for iron made quantitative.

**OXYGENIUM.**—Now required not less 98 per cent. by volume of  $\text{O}$  (16) (instead of not less than 95 per cent.). Test added for oxidising substances 2,000 c.c. of the gas must not change the colour of 100 c.c. of freshly-prepared test solution of starch-potassium iodide.

**PHOSPHORUS.**—Solubility in chloroform now given as 1 gram in 40 c.c. (instead of 1 in 17).

(To be continued.)



## From the Berens Collection

THE sale of a section of the Berens collection on May 30, reported in the *C. & D.* of June 7 (p. 783), attracted widespread attention among experts, one of whom, as we mentioned then, secured about 100 specimens of Italian majolica. The accompanying illustrations give an idea, so far as small pictures can, of the beauty of this ware. The first set of pharmacy pots, eight in number, affords an example of Bassano vases. Each stands  $8\frac{1}{2}$  inches



BASSANO PHARMACY POTS

high, is furnished with spout and flattened handle, and is painted in colours with sprays of flowers. Those in the next group are all dated 1578, and are the products of an ancient pottery at Macerata. The six covered specimens are labelled for oils and syrups. They are highly decorated, even to the spouts and handles, with coats of arms and scroll work. The central spouted jar and the three on the lower level are very interesting. They are adorned in blue on a grey ground with foliage. The handles are snake-like, with a double twist. The



MACERATA PHARMACY VASES, DATED 1578

two larger two-handled vases have as decoration figures of a priest in a curious garment. The last and largest group, from the Gabini Pharmacy, Borso, Roumania, forms a fine and unusual equipment for an old pharmacy, consisting of forty-seven drug pots and syrup jars, painted with flowers in brilliant colours, and in many ways resembling salt glaze. From the information on labels attached to the metal covers of some of the vases, the collection was actually *in situ* at the pharmacy, where the two large covered ones were, no doubt, conspicuous objects.

They are labelled respectively "Theriaca Veneta" and "Mostarda Fina," both favoured confections since the days of Nero. The names on the other pots are:—

### 7-inch Cannon Pots:

Cons: Tot: Citry:	Ung: Diœstiv: Ros:
Ung: Sandalium	El: Diartart: P.C.
Ung: Tutiae	Cons: Violar: Celest:
Ung: Ros: Malv:	Ung: Rasinum
Ung: Ros: Mesue	Cons: Malvæ
Ung: Altea Nicol	Ung: Placent:
Ung: Difensiv:	Cons: Cornular:
El: Lenitiv:	El: Diascord: Frac:
Cons: Cass: Donz:	

### Spouted Vases:

Mel: Ros: Simp:	Syr: Ros: Sicc:
Syr: Pomor: Apy:	Syr: Papav: Erratic:
Syr: Erism: Lobely:	Syr: Cicor: c. Rhab:
Ol: Masticinum	Syr: Radic: v. Aperient:
Syr: Tuxilagin:	Mel: Rosa Solutiv:
Ol: Vulpinum	Ol: Lilior: Alb:
Syr: Capil: Vener:	Syr: Viol: Celestin:
Syr: Diamoron	Ol: Laurinum
Ol: Hypericon	



FROM THE GABINI PHARMACY, BORSO

### Smaller Pots:

Pil: Cynoglos:	Comphet: Hyacinthin:
Comphet: Allessifarm:	Troc: Viperin:
Spet: Imperiales	

Many of the jars have their original covers, constructed of thin sheet iron in a stout brass rim.

## Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

**Fungicidal Products.**—The manufacture of products having germicidal and fungicidal properties by treating a tanning extract with a halogen or an oxidising agent. (Koholyt A.G. 205,827.)

**Aluminium Hydroxide.**—A process for the manufacture of aluminium hydroxide and alkali-metal or earth alkali-metal silicates from natural aluminium silicates such as china clays, and which comprises heating aluminium silicates with caustic alkalis or earth alkalis or alkali or alkaline earth-metal carbonates in the presence of water in a closed vessel, at temperatures sufficient to give rise to a pressure of three or four atmospheres, or in the absence of water to like temperatures. (The Amber Size and Chemical Co., Ltd. 220,011.)



## Fur Dermatitis

THE Ministry of Health has issued a report (No. 27: Stationery Office, 9d.), by Mr. Allan C. Parsons, M.R.C.S., of an inquiry into the occurrence of dermatitis attributed to the wearing of fur collars. The report should be read in its entirety, and for this reason we refrain from an exhaustive summary of its contents. Incidentally, it is of interest to note that THE CHEMIST AND DRUGGIST (as is indicated on p. 2 of the report) was the first among technical papers to publish information concerning the recent outbreak. The important investigations of Mr. Herbert Skinner, Ph.C., chemist to the Royal Northern Hospital, London, contributed to the *C. & D.* of April 7, 1923, are also printed in full as Appendix 2 of the report.

### EXPERIMENTS AND CONCLUSIONS

On the medical side, the inquiry was extended over a wide area of the country. On the chemical side, the report states:—

Dr. Semon and Dr. Roxburgh, at the Royal Northern and St. Bartholomew's Hospitals respectively, arranged for the analysis of such noxious furs as they could obtain. In other instances examinations were conducted by public analysts on behalf of health authorities and of private clients. On the side of the fur trade, the chemical constitution of the dyes used was investigated by the British Dyestuffs Corporation, Ltd., and by Martin & Sons, dyers, on behalf of the London Fur Trade Association. In view of these several technical investigations it was not at first thought necessary that the Ministry should arrange for any further research work. In the meantime, however, some incriminated furs had been received with a request from the donors that, if possible, they might be chemically examined under the auspices of the Ministry. It was then arranged that the material received should be submitted to Professor A. G. Perkin, F.R.S., of Leeds University, who kindly undertook its analysis.

One of the conclusions arrived at was that the human factor is relatively unimportant. A suggestion that salts of arsenium used in the leather industry might be responsible, to some extent at any rate, was abandoned through lack of positive evidence. The dyeing of the fur remained, and still holds the field, as the principal cause. A rapid survey of the scope of the investigations and their results may be obtained from the following table:—

Name of investigator	On behalf of	Provisional opinion on the cause of fur dermatitis
Mr. J. P. Millington	Messrs. Martin & Sons, Dyers, London	Incomplete dyeing with member of the paraphenylene diamine group.
Mr. Webber	British Dye Stuffs Corporation, Ltd., Manchester	The application of the dye: the dyers of some of the cheaper grades of fur do not go to the expense of completely neutralising the dye used.
Dr. Mackenzie Wallis	Dr. A. C. Roxburgh, St. Bartholomew's Hospital, London	Presence of chion-dichloridi-imine (an oxidation product of paraphenylene diamine) owing to incomplete oxidation.
Mr. Herbert Skinner	Dr. Semon, Royal Northern Hospital	A coloured principle, corresponding in its reactions and comparative tests to metaphenylene diamine. Ineffective technique in respect of the mordant employed.
Dr. J. A. H. Brincker, L.C.C. (One specimen examined)	Medical Department, L.C.C.	Volatile dimethyl-paraphenylene - diamine which is volatilised after a time and in bright sunlight.
Dr. J. W. Eyre, Bacteriological Dept., Guy's Hospital (One specimen)	William Bernstein, 53 Golden Lane, E.C.1., and Dr. T. N. Barlow, Medical Officer of Health, Wallasey	Microscopically the hairs are normal and contain no micro-organisms. No pathogenic organism found by cultural methods. Metaphenylene diamine and formalin both absent.

Name of investigator	On behalf of	Provisional opinion on the cause of fur dermatitis
Public Analyst, Leicester, Mr. F. S. Burford	A private client	The colouring matter extracted responded to the tests for metaphenylene diamine. The fur has been found to be a rabbit fur dyed by a reagent containing a paraphenylene diamine. Large amounts of organic residues can be extracted from the fur; these are chiefly oxidation products and cannot be definitely identified.
Public Analyst, Manchester, Mr. H. Heap (One specimen)	Dr. Veitch Clark and a local furrier	The harmful nature of dyed furs, to which dermatitis is due, is to be attributed either to the dyestuff which has been developed on the fibre, or to the presence thereon of compounds which have entirely escaped conversion into colouring matter or represent an intermediate stage of final colour formation.
Professor A. G. Perkin, Leeds University	Ministry of Health	In the particular furs examined: The presence of paraphenylene - diamine in one case and of a closely-allied aromatic substance in a second was probably sufficient to account for the irritating properties of these two furs; the irritating property of all four furs was possibly due also, in part, to the presence of a substance, or substances, very closely resembling Bandrowski's base.

The details of Professor Perkin's analytical tests are set out in Appendix 4. The following extract from his summary gives a general idea of the conclusions reached:

The colouring matter present in these furs is of a by no means homogeneous character, for though much is insoluble in the usual solvents, some portions are, however, soluble in water, in boiling alcohol and in cold dilute hydrochloric acid respectively. Our conclusions in regard to these latter points are given with reserve, as we have not been able to obtain an authentically innocuous dyed fur for purposes of comparison. On the other hand, this lack of homogeneity of colouring matter we consider is likely to have arisen from a faulty application of the dyeing process, in other words, an incomplete oxidation of the developer to the finished dyestuff. Whereas in the case of the furs (A) and (D), *p*-phenylene-diamine or an analogous compound was absent, and these furs had undoubtedly produced dermatitis, it is thus probable that the irritant present is a product representing an early stage of colour development that is of the nature of Bandrowski's base. Again though in Fur (B) *p*-phenylene-diamine has been found, and in Fur (C) a crystalline substance of an apparently similar character was present, there was also present in each immature colouring matter, closely similar to the Bandrowski's compound. Finally, all furs possessed a faintly acid reaction and showed no sign of the application of mordants.

Mr. Skinner and Dr. Semon (p. 16) are evidently in agreement with Dr. W. F. Castle (p. 7) that a "greasy" skin is a contributory factor, since it is found that metaphenylenediamine is dissolved by acids and wool fat. A useful bibliography is included with the report.

**ARSENIC IN OYSTERS.**—One of the latest reports of the Ministry of Agriculture and Fisheries suggests that samples of oysters from the Thames estuary should be analysed periodically for arsenic until it is made clear whether or not arsenic is normally present.



## New Zealand Standards for Food and Drugs

THE following is a further instalment of a new Order in Council made by the Governor-General of New Zealand under the Sale of Food and Drugs Act, 1908. Publication was commenced in our issue of September 6 (p. 360):—

### ANALYST'S CERTIFICATE AND FEES

25. (1) The certificate of the analyst referred to in Section 8 of the said Act shall be in the form "A" in the Schedule hereto, where any method of analysis, chemical or physical, has been prescribed for the analysis of any food or drug; and in the form "B" in the said Schedule where no method is so prescribed.

(2) In the case of a certificate regarding milk, butter, or any article liable to decomposition, the analyst shall in his certificate specially report whether, prior to the analysis, any change had taken place in the constitution of the article which would interfere with the analysis.

[Clauses 26 and 27 give general interpretations; Clause 28 deals with flour, bread and meal.]

### CUSTARD POWDER

29. (1) Custard powder shall be a powder prepared from wholesome starch with or without harmless colouring or (and) flavouring matter.

(2) The word "egg" and expressions or devices which imply or suggest the presence of egg or the equivalent of egg shall not be written on or attached to any package which contains custard powder.

### CREAM OF TARTAR

30. Cream of tartar (potassium bitartrate,  $\text{KHC}_4\text{H}_4\text{O}_6$ ) sold for other than medicinal use shall be the purified product obtained by recrystallisation of crude argols or wine lees; it shall contain not less than ninety-five parts per centum of acid tartrates, calculated as potassium acid tartrate ( $\text{KHC}_4\text{H}_4\text{O}_6$ ), and not more than two parts per centum of sulphates, calculated as calcium sulphate ( $\text{CaSO}_4$ ).

### CREAM-OF-TARTAR SUBSTITUTES

31. (1) Cream-of-tartar substitutes shall contain not more than one part per centum of sulphates, calculated as calcium sulphate ( $\text{CaSO}_4$ ), and its acidity shall be not less than the acidity of cream of tartar.

### BAKING POWDER

32. (1) Baking powder shall be a salt or a mixture of salts, with or without a farinaceous diluent substance, which evolves carbon dioxide on being moistened and heated, and which may be used in the preparation of articles of food as a chemical leaven. It shall contain not more than one and five-tenths parts per centum by weight of sulphates, calculated as calcium sulphate; it shall yield not less than ten parts per centum by weight of carbon dioxide on heating with water; and it shall not contain any alum or compound of aluminium. Coloured baking powder shall conform to this standard.

### INFANTS' FOOD

33. (1) Infants' food shall be any food described or sold as an article of food suitable for infants. It shall not contain any woody fibre, nor any mineral substance which is insoluble in acid, nor any preservative substance.

(2) (a) In the label attached to every package of infants' food which, when prepared as directed by any accompanying statement or label, contains more than one per cent. of starch, or otherwise does not conform approximately in proportional composition to human milk, shall be written in bold-faced sans-serif capital letters of not less than six points face-measurement the words:—

"This food should not be given to infants under the age of six months, except under medical direction."

The said words shall be the first words of the label, and no other word shall be written on the same line or lines.

(b) The year and the month of the year in which the food was prepared shall be marked on the label attached to every package containing infants' food, in the following form:—"Packed on [Here insert date]."

### INVALIDS' FOOD

34. (1) Invalids' food shall be any food described or sold as an article of food suitable for invalids. It shall consist of food substances modified, prepared, or compounded so as to possess special nutritive and assimilative properties

which render them specially suitable for use as food by invalids.

(2) There shall be written in the label attached to every package containing any article of food described as or purporting to be invalids' food a statement of the ingredients contained in it on which the claim of special suitability for invalids is based. In the case of a food described as or purporting to be suitable for persons suffering from diabetes, the proportion per centum of carbohydrate (starch, sugar, etc.) present must be stated.

### MALT, MALT-EXTRACT, ETC.

35. (1) [A general definition.]

(2) Malt-extract shall be the substance obtained by evaporating an aqueous extract of malt as a temperature not exceeding  $55^\circ\text{C}$ .; it shall contain not less than seventy parts per centum of solids derived wholly from malt. Its diastatic power shall be such that one hundred grains of the extract will in thirty minutes, at a temperature of  $43^\circ\text{C}$ ., convert not less than 250 grains of pure anhydrous potato-starch into an equivalent amount of maltose as estimated by the Harrison-Gair method.

(5) Malt-extract and cod-liver oil shall be an emulsion composed of malt-extract and cod-liver oil; it shall contain not less than fifteen parts per centum by weight of cod-liver oil.

[Clause 36 lays down standards for various foods. The following extracts are of interest]:—

36. (9) Lard shall be the clean fat rendered from the meat of the hog; it shall be free from rancidity. It shall contain not more than one part per centum of substance other than hog-fat necessarily incorporated with it in the course of rendering, and not more than one part per centum of water. It shall not contain any added substance.

(13) Meat-extract, meat-essence, or meat-juice shall be the product obtained from meat by extraction, expression, or concentration. It shall contain the protein, flesh, but no extract of yeast or other added substance, except salt and condiments; and in the case of meat-juice, glycerin, provided that the presence and amount per centum of glycerin be declared.

### GELATIN

37. (1) Gelatin sold for human consumption . . . shall yield not more than three parts per centum of ash. A five-per-centum aqueous solution shall form a jelly when kept at a temperature of  $65^\circ\text{Fahr}$ . for two hours. A five-per-centum aqueous solution prepared with sterilised water at a temperature not exceeding  $90^\circ\text{Fahr}$ . shall not become alkaline or emit any unpleasant odour after standing for forty-eight hours in a Petri dish at a temperature of  $80^\circ\text{Fahr}$ .

(2) Gelatin may contain sulphur dioxide (or sulphites calculated as sulphur dioxide) in proportion not exceeding three and one-half grains of sulphur dioxide to the pound of dry, marketable gelatin sold for human consumption. Declaration of the presence of sulphur dioxide, or of a preparation of sulphur dioxide, in gelatin sold for human consumption, is not required unless the proportion contained in it exceeds five-tenths of one grain to the pound.

[Clauses 38 and 39 deal with standards for eggs.]

### EDIBLE FATS AND OILS, AND SALAD OILS

40. (1) [A general standard for olive oil.]

(2) Olive oil . . . shall have a specific gravity of from 0.913 to 0.919 at a temperature of  $60^\circ\text{Fahr}$ ., a saponification value of from 185 to 196, and an iodine value of from 79 to 90. . . .

[Clauses 41 and 42 give standards for margarine and milk respectively.]

### CONDENSED OR CONCENTRATED MILK

43. (1) [A general definition.]

(2) Unsweetened condensed or concentrated milk shall contain not less than twenty-five and five-tenths parts per centum of total milk solids, and not less than seven and eight-tenths parts per centum of milk-fat. It shall not contain any added substance.

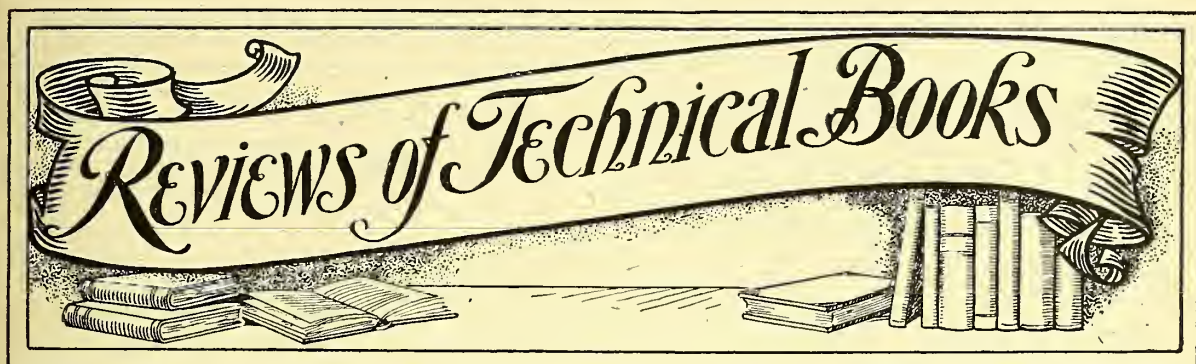
(3) Sweetened condensed milk shall contain not less than thirty-one parts per centum of total milk-solids, and not less than nine parts per centum of milk-fat. It shall not contain any added substance save cane-sugar. . . .

44. (1) Dried milk . . . shall not contain more than five parts per centum of water, nor any added substance. . . .

[Clauses 45-50 inclusive deal with reconstituted milk and cream, butter, cheese, tea, coffee, cocoa, and chocolate.]

(To be continued)





*Grundzüge der Kolloidchemie.* By H. Freundlich. 9 in. by 5½ in. Pp. 165. Gold marks 6. Leipzig: Akademische Verlagsgesellschaft m.b.H., 4 Markgrafenstrasse.

Colloids play a most important rôle in practically all vital processes—most of the body fluids are colloids—and the phenomena of colloidal chemistry have in recent years acquired immense practical value in numerous industries, for instance, in the treatment of indiarubber. The author's object is to present the basic principles of colloidal chemistry in a concise, logical form, and in this he has certainly succeeded. The phenomena of capillarity, Brownian movement, sols and gels are described in an eminently attractive style, leading the reader from the primitive theory or discovery through successive advances to the prevailing views on each of these colloidal phases. The fluorescence characteristic of hydrosols is, according to the author, identical with the "Urphänomenon" upon which Goethe built his theory of the nature of colours, for which Rayleigh provided an explanation in 1870. Many well-known reactions and everyday observations are adduced as examples of colloidal properties. The work is a highly interesting introduction to colloidal chemistry in its broadest aspect, which is presented in an assimilable form, free from the didacticism of a text-book.

*Nahrungs- und Genussmitteluntersuchungen.* By K. Amberger, C. Griebel, and R. Kissling. 10 in. by 7 in. Pp. 192. Swiss francs 11.40. Berlin: Urban & Schwarzenberg, 105a Friedrichstrasse.

This volume forms part 127 of the text-book on biological working methods, edited by Professor Dr. E. Abderhalden, and is a critical compilation of the methods adopted in the analysis of alcoholic beverages, tobacco and tobacco substitutes. The chemical tests for the recognition and estimation of each of the compounds which may be naturally present in wine, beer, liqueurs, etc., or which occur as artificial additions to these beverages, are succinctly described in separate monographs, with full particulars of the actual method of applying each test, largely based on the methods officially adopted by the German minister of the interior as standard processes. In the second part of this volume the morphological and histological characteristics of the tobacco leaf, and of the leaves of other plants used as substitutes or adulterants, are described in detail, the descriptive matter being illustrated by numerous reproductions of microphotographs of characteristic cell groups, etc., by means of which it is possible to identify the nature of each surrogate. In view of the wide range of plants employed in the sophistication of tobacco, which include beech, chestnut, oak, hop, nettle, rhubarb, plane, beetroot, apple, cherry, vine, marshmallow, potato, belladonna, sunflower, chicory leaves, etc., this part affords valuable information for the recognition of these various leaves apart from their presence in tobacco. A special chapter is devoted to the treatment of tobacco leaves, and includes a description of the methods adopted for the isolation and determination of the constituents present in the natural leaves, in manufactured tobaccos, and also in tobacco smoke.

*A Text-book of Inorganic Chemistry.* Edited by J. Newton Friend, D.Sc. Vol. II. *The Alkali-metals and their Congeners.* By A. Jamieson Walker, Ph.D. 9 in. by 5½ in. Pp. 379. 20s. London: Charles Griffin & Co., Ltd., Exeter Street, Strand, London, W.C.2.

The scheme of this work on chemistry consists in treating the subjects in groups according to the position of the elements in the periodic table. Ten volumes are projected, but some of these are issued in parts, so that the series when completed will occupy at least fourteen books. The particular volume under review deals with group 1 of the periodic table, comprising hydrogen, lithium, sodium, potassium, rubidium, caesium, ammonium compounds, copper, silver and gold. A feature of the work is the number of references given to original papers, which enables anyone to check the statements and refer for further details to the full report of an investigation. It will be obvious from the number of subjects dealt with in the space that a condensed style is used in writing these books. The subject lithium, for example, occupies twenty-nine pages, and yet it covers the occurrence, history, preparation of the metal, physical and chemical properties, the lithium ion, transmutation of copper into lithium, atomic and molecular weight, compounds (including out-of-the-way salts, but not all those used in medicine), and the detection and estimation of lithium. The same order is followed in treating the other elements.

*Résines et Térébenthines—Les Industries Dérivées.* By M. Vèzes and G. Dupont. 9 by 6½ in. Pp. 656. Paris: Librairie J. B. Baillière et Fils, 19 Rue Hautefeuille.

This volume is divided into three parts, the first of which partakes of the nature of an introduction, since it deals with the more commonly employed balsams and resins, giving particulars of their origin, constitution, characters and uses. The second part, dealing with the different oleoresins known as turpentine, and various oils of turpentine, forms the most important portion of the work. France ranks second in importance among the countries which supply the world's requirements in oil of turpentine and resin, the United States coming first, its contribution amounting to about 75 per cent. of the total production, while that of France constitutes 15 per cent., or over 60 per cent. of the total European output. No less than 1,178,000 hectares (3,000,000 acres) of the area of France is covered with pine forests, and in the second part of the work, the collection of turpentine, which has its chief centre in the region known as the Landes, near Bordeaux, the various manipulations to which it is submitted, in which the distillation of the oil occupies naturally a prominent part, are exhaustively treated, numerous illustrations of the tapping of the trees, distillation apparatus in use, etc., being interspersed in the text. A list of French and Spanish producers is included, as well as a brief note on the distillation methods in use in the United States and in Spain, with illustrations. The characters and constitution of different varieties of resins, colophony and oil of turpentine are described at length; in fact, this part constitutes a text-book on the chemistry



## Reviews of Technical Books

of turpentine. Embodied in the text are numerous statistical tables, and the economic importance of this branch of industry to France and to other countries is duly emphasised. The distillation products of resin, an industry which has been largely developed in Germany, their characters and industrial uses, are described at length in the third part, as well as certain technical applications of resin.

*A Dictionary of Applied Chemistry.* By Sir Edward Thorpe, C.B., LL.D., F.R.S., assisted by eminent contributors. Vol. V. Revised edition. 9 in. by 6 in. Pp. 730. 60s. net. London: Longmans, Green & Co., 39 Paternoster Row, E.C.4.

This volume of the premier work of reference on chemistry in the English language begins with Oxygen and ends with Rye. Among the subjects to which special articles are devoted figure paints, paper, paraffin, petroleum, photography, photosynthesis and phytosynthesis, polarimetry, pottery and porcelain, proteins, radiology, refractometer and refractories, refrigerating, resins, and rubber. The list of substances of pharmaceutical interest is a long one, since it includes such important compounds as pepsin, phenacetin, phenol and its homologues, *Rhannus* and rhubarb, to instance but a few outstanding products. The monograph on proteins, contributed by Professor S. B. Schryver, is an admirable presentation of this complex subject, and practically covers in a condensed form our present-day knowledge of this important group of substances. Recent work by Swiss investigators on the assay of rhubarb by the determination of the anthraquinones is embodied in the monograph on rhubarb root, as well as the results obtained by Tschirch, Ross and Kroeber from the cultivation of *Rheum palmatum* and *R. officinale* in Europe. It is only by its use that the value of this work can be fully appreciated, and as a work of reference it is practically indispensable to the industrial chemist.

*The Plant Alkaloids.* By T. A. Henry, D.Sc. (Lond.) 9 in. by 5½ in. Pp. 456. 28s. Second edition. London: J. & A. Churchill, 7 Great Marlborough Street, W.1.

When the first edition of Dr. Henry's book was published in 1913 we referred to unique qualifications which the author has for writing a book on alkaloids. A pharmaceutical chemist and doctor of science, who afterwards became Superintendent of Laboratories, Scientific and Technical Department, Imperial Institute, and is now director of the Wellcome Chemical Research Laboratories, combines the experience of the practical and the research chemist which gives authority to his work. A good deal of research has been done on the subject of alkaloids in the decade since the first edition appeared, and the incorporation of this necessitated much rewriting. Space has been saved because, the question of the constitution of some alkaloids being settled by recent work, there is not the call for alternative arguments on the subject. In this edition eight attractive plates have been added, illustrating the sources of some of the alkaloids. Dr. Henry, in the introduction, touches upon the meaning of the word "alkaloid," which, although first used to describe all organic bases, is "now generally understood as meaning a relatively complex basic substance occurring naturally and possessing some physiological action." We have printed two words in italics in view of the fact that the proposed revised entry "poisonous alkaloids" in the poisons schedule is supposed by some to have included "synthetic" alkaloids in the schedule. The animal alkaloids are simpler than and different in type from the majority of the vegetable alkaloids, but Dr. Henry confines his book to the alkaloids derived from plants. Ten groups are classified according to the nucleus, the last one dealing with alkaloids of unknown constitution, including the important bodies aconitine, colchicine, and emetine. The book is one which can be recommended as the most important work on alkaloids, which are of

such great importance to chemists and druggists and practitioners of medicine.

*Manipulations de Chimie Analytique Appliquée.* By M. François. Second revised and enlarged edition. 10 in. by 6½ in. Pp. 322. Paris: Librairie E. Le François, 91 Boulevard Saint-Germain.

The author is a well-known French pharmacist, who, in addition to being one of the teachers in the laboratory of the Paris Faculty of Pharmacy and a director in the central laboratory for the study and analysis of medicinal and hygienic products attached to the ministry of agriculture, is also chief pharmacist of the Hôpital des Enfants-Malades. His work, which is a practical guide to analysis, is divided into three parts: (1) Analysis of medicines; (2) food analyses; and (3) biological and forensic analyses. In the first part, the official tests described in the Codex are amplified, and in many instances completed by the inclusion of a number of additional analytical processes. Although primarily intended as a guide for students of pharmacy in the laboratory, this part of the work constitutes a valuable commentary to the French pharmacopœia, inasmuch as it clears up many ambiguities and rectifies several errors to be found in the Codex. The second part is devoted to the analysis of a number of foodstuffs and beverages in current use, and which the pharmacist may be called upon to examine. The third part deals with the analysis of urine, gastric juice, blood, cerebro-spinal fluid, tests for the recognition of mercury, arsenic, lead, oxalic acid, and other poisons. In an appendix the principal characters of a number of organic compounds used in medicine are briefly described, to facilitate their determination.

## Personalities

COUNCILLOR T. W. HOLIDAY (Holiday & Co., wholesale druggists, Durham) is Mayor-elect of his city.

CAPTAIN-QMR. J. H. MAUNDER, M.C., T.D., R.A.M.C., T.F., who served in France with the 8th Division, and is now representing Allen & Hanburys, Ltd., in the south-west of England, has been awarded by the Allied Powers, for distinguished service rendered during the war, 1914-1919, the Médaille de la Reconnaissance Française.

As their representative in Burma, Ceylon, the Federated Malay States and India (excepting Bombay Presidency), The British Drug Houses, Ltd., have appointed Mr. Henry S. Clark, who sails on September 16, and may be addressed P.O. Box 2,370, Calcutta. Mr. Byram Mistry, 119 Parsee Bazar Street, Fort, Bombay, continues to represent the company in the Bombay Presidency.

## Wills

MR. GEORGE COMMINS ROW, J.P., retired chemist and druggist, Braintree, who died on July 29, left estate of the gross value of £2,020 6s. 5d., of which £1,981 11s. 9d. is net personality. Probate of the will has been granted to his widow.

MR. WILLIAM HOOD, Veronica, Rugby Road, West Worthing, drug, spice and produce merchant (Evans, Gray & Hood, Ltd., 13 Fish Street Hill, London, E.C.4), who died on August 5, left estate of the gross value of £17,536 16s. 11d., with net personality £16,065 19s. 7d. Probate of his will has been granted to his widow, the sole executrix, to whom he left all of his property absolutely.

MR. CALVERT ROBERTS, Seapoint Villas, Monkstown, co. Dublin, a director of May, Roberts & Co., Ltd., and for several years in charge of the Dublin branch of the company, who died on April 9, left personal estate valued at £13,669 6s. 3d. Probate of his will has been granted to his widow and his father-in-law (Mr. Alexander Roberts, Enniscorthy). The testator left all his property to his wife absolutely.



## Births

Notices for insertion in this column must be properly authenticated.

SMITH.—At Park House, Forest Road, Skegby, on August 27, the wife of G. O. Smith, chemist and druggist, of a daughter.

## Marriages

DAVIES—SILMAN.—At Dawes Road Baptist Church, Fulham, London, S.W.6, on August 25, by the Rev. H. G. Doel, pastor, E. J. Davies, M.P.S., M.I.C.O., to Ethel Lillian, eldest daughter of Mr. George Silman, 9 Walde-mar Avenue, Fulham.

KEY—ESTLIN.—At Christ Church, Melita, Manitoba, Canada, on August 6, by the Rev. W. J. Finch, George Brown, younger son of Mr. G. B. Key, chemist and druggist, Kirkcaldy, Fife, to Dorothy Mabel, younger daughter of Mr. A. B. Estlin, Melita.

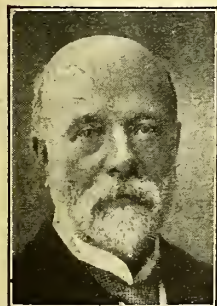
KEY—SMITH.—At St. Brycedale United Free Church, Kirkcaldy, on September 3, by the Rev. E. Macdonald Ross, M.A., William John Macdonald Key, M.P.S., son of Mr. G. B. Key, chemist and druggist, to Jeannie Low Smith, only daughter of the late Mr. J. Smith.

MACKENZIE—SHAVE.—At Holy Trinity Church, Stroud Green, London, N., on September 6, by the Rev. J. H. Greaves, M.A., Donald Johnson Mackenzie, M.P.S., to Winifred, daughter of Mr. W. F. Shave, Stroud Green.

## Deaths

ABRAHAM.—At his residence, 53 Bidston Road, Oxtou, Birkenhead, on September 3, suddenly, Mr. Thomas Fell Abraham, Ph.C., aged seventy-six. Mr. Abraham was a son of the late Mr. John Abraham, the original junior partner of Clay & Abraham, chemists, 87 Bold Street, a firm established in 1845. He was educated at the High School of Liverpool Institute, passed the Major examination in July 1858, and succeeded his father as elder partner of the firm in 1881. The business, to which branches were added in course of time, was converted into a limited company in 1911, and Mr. Abraham subsequently retired from active participation in its control. He was President of the Liverpool Chemists' Association in 1877 and 1878, and visitors to the British Pharmaceutical Conference of 1920 will remember his genial personality. Mr. Abraham played a useful part in the public life of his city, serving as director of the Liverpool Institute and School of Art, as treasurer of the Naturalists' Field Club, and as a member of many philanthropic and other committees. The funeral took place at Flabrick Hill on September 6. Among those present, in addition to the family mourners, were the following representatives of the directorate and staff of Clay & Abraham, Ltd.: Mr. G. E. Marshall, Mr. H. E. Digby, Mr. B. Irving, Mr. Wilson, Mr. Goulstone, Mr. G. Marples, and Mr. W. Edney Peters. Mr. H. Humphreys Jones, Ph.C., represented the Liverpool Chemists' Association; and other friends present included Mr. W. H. Saunders (Ayrton, Saunders & Co., Ltd.), and representatives of the Liverpool Guardian Trade Protection Society.

MR. T. F. ABRAHAM, PH.C.



ALLEN.—At Oak Hall, Marden Ash, Ongar, on August 30, Mr. John Allen, chairman of Frederick Allen & Sons (Poplar), Ltd., chemical manufacturers, aged seventy-nine.

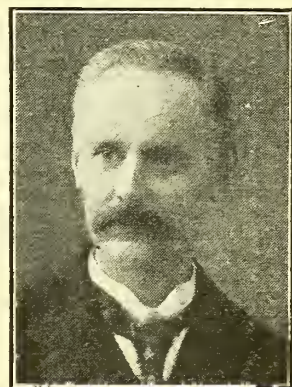
BAILHACHE.—At Aldeburgh, on September 8, suddenly, Sir Clement Meacher Bailhache, aged sixty-seven. Mr. Justice Bailhache, who was created a judge of the High Court in 1912, tried many commercial cases of importance,

such as the one relating to a shipping order for heliotropine during the recent war (*C. & D.*, 1917, p. 1037). His decision, given last July, that a municipal councillor who is also managing director of a company which has a contract with his corporation is disqualified from holding a seat on the council, has already had considerable results.

BREWIS.—At "Pendennis," Gladys Avenue, Portsmouth, on September 6, the wife of Mr. Thomas Brewis, chemist and druggist. Mrs. Brewis was a member of the ladies' committee at the Portsmouth meeting of the British Pharmaceutical Conference in 1911. She was a gifted organiser of entertainments and schemes for the relief of suffering, and during the recent war Mr. Brewis's residence was "open house" for convalescent soldiers. Mr. and Mrs. Brewis celebrated their golden wedding two years ago (*C. & D.*, I. 1922, p. 714), and since that time Mrs. Brewis had been in failing health.

MACORD.—At 120 East India Dock Road, London, E.14, on September 4, Mr. Horace Walford Macord, M.P.S., aged seventy-seven. Mr. Macord spent many years in business in Australia. In 1918 he returned to this country in the s.s. "Tinui," which was torpedoed sixty miles off Falmouth. Settling in London, he opened a pharmacy at Poplar. Mr. Macord is survived by two daughters. The funeral took place at Manor Park Cemetery on September 8.

NURSE.—At his residence, "Woodside," Park Road, Lowestoft, on September 1, Mr. James Aldis Nurse, Ph.C., eldest son of the late Mr. James Nurse, Sutton, Surrey, aged sixty-three. Mr. Nurse served his apprenticeship to the late Mr. T. J. Sale, chemist and druggist, 59 High Street, Lowestoft, and gained further experience with Chapman & Pain, chemists, Ipswich, and the late Mr. Kilby Pears, Ph.C., Hove (father of Mr. H. W. Kilby Pears, Ph.C.). He qualified in December 1885, and passed the Major examination in the following July. A period as assistant to the late Mr. Henry Long, Notting Hill, London, W., followed, and on the death of Mr. Sale in 1889 Mr. Nurse was asked to conduct the business on behalf of the executors. This business he subsequently purchased and carried on with marked success until last March, when he disposed of it and retired. An attack of enteric fever in the autumn of 1921 undermined his health; and although surgical measures were resorted to in the spring of this year, they proved unsuccessful. Mr. Nurse took no part in public affairs, but he was widely known and esteemed as an upright man of business, and for many unostentatious acts of kindness. He was twice married, and leaves a widow. The funeral took place at Lowestoft Cemetery on September 4, when a large gathering assembled to pay the last tribute of respect. Among the numerous wreaths was one from the Lowestoft Pharmacists' Association, of which Mr. Nurse had been President, and the Association was also represented at the ceremony.



MR. J. A. NURSE, PH.C.

## Business Changes

MR. J. A. DYSON, chemist and druggist, 50 Queen's Road, Brighton, has acquired the business of Mr. L. B. Baynard, 82 Gloucester Road, in the same town.

THE DE VILBISS CO. LTD., spray manufacturers, West Drayton, Middlesex, have removed their showroom to 27 Old Bond Street, London, W.1, where Mr. D. J. Parry is in charge.



## Trade Notes

**EVENING CLASSES** for pharmacy students form the subject of the advertisement of Woolwich Polytechnic, London, S.E.18, in this issue.

**COURSES** of lectures by Mr. C. T. Bennett, B.Sc., at the Borough Polytechnic Institute, London, S.E.1, commence on September 22 in chemistry, and on October 1 in essential oils.

**DRUGGISTS' SUNDRIES.**—Mr. Thomas Swales, Butts Court, Leeds, who illustrates in this issue a number of articles in frequent demand, invites visitors to the Leeds Chemists' Exhibition to call at his stand.

**SOUTHALL BROTHERS & BARCLAY, LTD.,** Birmingham, give particulars, in their advertisement in this issue, of their Influenza Mixture, packed in thirteen styles. Selling aids, such as lantern slides and electros, are available.

**INSULIN IN TABLET FORM** is the subject of an advertisement by Burgoyne, Burbidges & Co., Ltd., East Ham, London, E.6. The product (for export only) is packed in tubes of twenty tablets, each of which is equivalent to five clinical units.

**HOMOEOPATHIC VIALS.**—Offers to purchase the whole or part of their stock of 800 gross of 3vj. homoeopathic vials are invited by Capsuloids (1909), Ltd., 8 Duke Street, Manchester Square, London, W.1. Samples will be sent to anyone interested.

**PRUNOL, LTD.,** publish in another part of this issue a full report of a statutory meeting held on September 2 at their registered offices, 4 Pickering Place, London, S.W.1, when the chairman indicated the advertising plans and prospects of the company.

**G.O. LEMON SKIN TABLETS.**—Particulars will be found, on another page of this issue, concerning a special offer in connection with G.O. Lemon Skin Tablets, a winter line manufactured by the Greenwich Lemonade Co., 11 John Penn Street, London, S.E.13.

**TABLETS.**—Buckley Bowker Tablet Co., 4/8 Arthur Street, London, E.C.4, who specialise in making tablets from customers' own materials, are installing new machinery to increase still further their output, which, we understand, is over half a million tablets a day.

**HOT-WATER BOTTLES.**—The washer on the stopper of a hot-water bottle is often the cause of trouble, so that a bottle with the patent neck which eliminates the washer has much to recommend it. Attention is drawn to this type of bottle, made in drab and red rubber, by John Douglas, Sons & Co., Ltd., Trindle Works, Dudley.

**ARTHUR BRANWELL & Co., LTD.,** 43/45 Great Tower Street, London, E.C.3, call attention, in their advertisement in this issue, to the thin flat sticks of liquorice (in sections) made by Carenou et Cie, Moussac and Marseille, for which they are the sole agents. The factory was established in 1838, and has developed into a large-scale works with elaborate machinery.

**SOLID COLOGNE.**—In our advertising pages this week Mr. R. Demuth, 68 Salusbury Road, London, N.W.6, stresses the point that "Frozoclon" is the original cold Cologne, and puts forward reasons for its continued popularity, in spite of many competitive lines now on the market. Incidentally, we learn that there is apparently some confusion in the trade regarding "Dymuth," a preparation for moths which has been advertised in THE CHEMIST AND DRUGGIST; chemists have been writing to Mr. Demuth for supplies, and he asks us to state that he is not the manufacturer.

**ZEDENO SHEATH BANDAGE.**—Charles Zimmermann & Co. (Chemicals), Ltd., 9/10 St. Mary-at-Hill, London, E.C.3, are the importers into this country of the Zédéno sheath bandage, which is claimed to be an efficient dressing for varicose veins and ulcers, particularly when the sufferer is unable to rest the affected part. The bandage, under which is placed a piece of porous paper, is impregnated with zinc oxide and an aluminium salt, and requires no treatment prior to application. Two bandages and a supply of porous paper are packed in a tin box, and retail at 3s. 6d.

## Confectioners' Exhibition

THE Confectioners' Bakers' and Allied Traders' Exhibition, opened at the Agricultural Hall, London, N., on September 6, and closes on September 12. Exhibits of flavourings and colourings form the leading features at several of the stands, and are shown by, among others, BLACKWELL, HAYES & Co., LTD., and W. J. BUSH & Co., LTD. The latter have a fine display of essential oils, fruit extracts, harmless colourings and vanillin. Vanillin, too, forms the attraction at the stand of GRAESSER-MONSANTO CHEMICAL WORKS, LTD. STEVENSON & HOWELL, LTD., not only show samples of their essences, but also exhibit various sweetmeats containing them, so that buyers may judge the results obtainable by the use of the company's products. Extract of malt is to be found at many stands; and though it is usually of bakers' quality, most of those who exhibit it also prepare a pharmaceutical grade. In this connection mention may be made of BRITISH DIAMALT Co. (H. A. & D. Taylor, Ltd.), and EDME, LTD. Glassware is to be seen at the stands of MR. E. DUNCAN DORING, JOHNSON & JORGENSEN FLINT GLASS, LTD., and JULES LANG & SON. Mr. Doring has also a stand showing a remarkable collection of electrical and mechanical advertising appliances. Anything from shop-fronts to small stands, or requisites in the nature of fittings to bring retailers' premises up to date, can be supplied by HARRIS & SHELDON, LTD., while DUDLEY & Co. should be able to meet the wishes of the most exacting in regard to showcards, window-tickets, and similar articles. FORGROVE MACHINERY Co., LTD., who are showing high-speed caramel wrapping machines, also specialise in apparatus for packing soap, pills, tablets and other lines associated with the drug trade. NATIONAL CASH REGISTER Co., LTD., have a till for every type of business, and even with the smaller models it is surprising how much information regarding salesmanship and the turnover of various classes of goods can easily be obtained. In regard to the former the company are issuing a booklet entitled "Better Retail Salesmanship," which will be forwarded to chemists on application. The company are confident that by following the ideas contained therein the average sale to customers will be increased. JAMES PASCALL, LTD., have a striking display of sweetmeats, the main lines of interest to chemists being Ambrosia milk chocolate, bottled sweets, such as acid drops and barley sugar, and golden maltex cushions. The last-named contain extract of malt manufactured by ALLEN & HANBURYS, LTD., and in this form the extract will be readily taken by children. Among other exhibitors are GRIMWADE, RIDLEY & Co., Ipswich, (almonds and sugar); HORLICK'S MALTED MILK Co.; MANSELL, HUNT, CATTY & Co., LTD.; MILKAL, LTD. (separated and full-cream dried milks); TRUFOOD, LTD. (milk powder in three grades: full-cream, half-cream, and skimmed); VFNESTA, LTD. (plywood trays and boxes); and WRIGLEY'S, LTD. (chewing gum).

## Gazette

### Partnerships Dissolved

LEIGHTON, T. T., and HODGSON, J. W., 471 High Road, Leyton, Essex, chemists and druggists, under the style of Leighton & Co.

COKE, B. E., and MAXTED, E. B., Manor Road, Penn, Wolverhampton, industrial research chemists, under the style of Coke and Maxted.

## Information Department

### INFORMATION WANTED

M/89. Arnold's pessaries	B/89. Radio Phosforate of Potash
M/89. Challenge tooth brush	P/59. Roberts' Comp. Syr. Glykerole
B/89. Iodised Salt (used in Austria for goitre), London supply	A/59. Shaker extract (London supply)
N/99. Nova nasal syringes	S/109. True Scott's Pills
E/109. Papain Reuss (London supply)	



## Observations and Reflections

By Xrayser II.

### The Dartford Prosecutions

for the sale of carbolic acid were very badly conducted, and it is to be hoped the Pharmaceutical Society will take to heart the lesson it has received. To fail in such cases is worse than not to prosecute, and one would have thought that after all the experience the Society has had of the vagaries of courts of justice it would leave no loophole for the escape of offenders. The incident is lamentable for another reason. It is pretty good evidence that there is, to say the least of it, no bias in favour of the Society in some judicial quarters. We may be sure that if a chemist had been let off in any similar circumstances he would have been saddled with the costs of the prosecution. It may here be said, "Yes, if the Government prosecuted, but in this case it was the Pharmaceutical Society that did so." That, again, is true, but the Society was acting as the agent of the Government. Let us hope for more care in future.

### Since the above Note

was written I have seen the statement of the editor of "The Pharmaceutical Journal" that the report of the case against Mr. Pollard published in the "Journal" does not make the position of the Society in connection with prosecutions of this nature clear, since the whole conduct of these cases is in the hands of the police. This was stated in court, but was emphatically denied, so far as this particular case is concerned, by the clerk of the Court, who said, not only that it was unfair to the police to say so, and that it was for the Society to prove the case, but that the Society had actually "carried out all the preliminaries." However this may be, the Society must be held responsible for the breakdown of the case. It is, however, a great fault in the working of an Act of Parliament or an Order in Council that responsibility should be divided between the police and any other body; and such a state of affairs should not be allowed to continue, especially when, as in this case, it is found to set the two responsible parties at loggerheads. It is very probable that the attempt to shift responsibility upon the police influenced the Court against the Society.

### The Ministry of Health Report

shows the panel chemist in a very favourable light in comparison with the panel doctor, whether in regard to the amount of sums withheld or complaints made. "Gallant Little Wales," or, as a facetious friend of mine who died in harness as a pharmacist in China long ago used to say, "The adjacent parish of Wales," comes out well with regard to careless dispensing, only one case being mentioned. Wales also appears to beat England in the matter of purity in food and drugs—at least so far as can be judged from this report. It is satisfactory to see the averages a little lower than the previous year's. The drop in the averages of inaccurate dispensing is, however, much greater, which is a still more satisfactory feature.

### Breaches of the Shops Act

by chemists appear to be still fairly frequent, and are, indeed, practically unavoidable in some cases. It is impossible to say certainly what things in common demand in chemists' shops are needed for medical purposes. Take smelling salts or liquid ammonia, for instance. I know a person subject to occasional fits of sneezing, sometimes so violent as to be a source of real danger, and nothing is found to stop them so effectually as ammonia, which it is barely possible for the patient to have always at hand in sufficient strength. Would the sale of a bottle of smelling salts after 8 p.m. be legal or not? This may seem a trivial instance, but it is not so trivial as it looks; and others of a like and of a more serious kind might easily be given. I always regretted the inclusion of chemists'

shops in the Act, and consider the eagerness with which many of the craft welcomed it a lamentable sign of weakness. I am aware, of course, that other trades clamoured for it, but I am persuaded that some better way out of the difficulty thus created than the one adopted might have been found. It is too late to hope for a revision of the Act now, but it ought to be possible to ensure its more reasonable, not to say equitable, working. A chemist who in good faith sells anything ostensibly required for medical use ought not to be liable to a fine because a policeman or even a magistrate thinks differently from him as to what it was required for. But it is not the only law in the administration of which the presumption is always against the chemist.

### The Old Prescription-Books

described last week by Mr. C. C. Bell should set other pharmacists upon a quest for similar matter of interest in any old books they may possess. There are many old-established firms who must have such in their possession, and it should be possible to cull from them material that would throw fresh light upon the history both of pharmacy and of therapeutics during the last hundred years or so. Some old country businesses might yield matter even more curious than these London books contain. Country practitioners are likely to be more conservative in their mode of treatment, and country chemists more primitive in their book-keeping than their urban brethren. There were some very curious entries in the older books of a business I was once connected with in a small Midland town, and not a few were couched in language that would shock Mrs. Grundy. These, of course, were in the vernacular, and could hardly be repeated here, even if I could recall them. One veterinary prescription, copied, I believe, from an old edition of Clater, I may, however, repeat: "For colick in sheep: lay ye sheep gently on his back, give him three kicks in ye guts, set him on his legs, and he will do very well." (Note the word "gently.") Speaking of old medical works, I once bought from a very old man, long out of practice, a clothes-basket full of ancient volumes, including early editions of works by Culpeper, Salmon, Tinney, and others, which had evidently been used as guides to practice by him and his father.

### The History of Drugs

that will satisfy the medical antiquary has still to be written. When it appears, its most interesting chapters will not necessarily be those dealing with the drugs that are therapeutically of most importance. Many of those which were once held in great esteem and are historically of great interest have now fallen into neglect or disfavour, though they undoubtedly have valuable properties and would probably repay examination. I do not know whether this can be said of the violet, but there is good reason to believe that it has more powerful properties than it is usually credited with. Its use in medicine has been continuous from the time of Hippocrates, and though it disappeared from our Pharmacopœia in 1824, it is still much in demand in the form of syrup in domestic practice. The ancients thought very highly of its virtues. Pliny says that a garland of its flowers will prevent headache and vertigo, and our early herbalists, following their classic authorities, ascribe to it many virtues. It was held to be extraordinarily efficacious in allaying fevers, inflammations, quinsies, etc., besides which it was used as a mild sedative, stimulant, and purgative, and especially in lung and bronchial affections. It was, indeed, thought so very mild that Culpeper says of the syrup: "It is so harmless a Syrup you shal hurt your purse by it sooner than your body"; and Alleyne that in his time it was only given to children. It figured largely in articles of confectionery with a more or less medicinal intention, and is one of the chief ingredients in the "Suger Plate or Issing (*sic*) Comfitts" of the "Arcana Fairfaxiana." "Pharmacographia" ignores it, and Pereira says its "odorous emanations" have occasionally proved dangerous; that the seeds and flowers are laxative, the root purgative and emetic.



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## Editorial Articles

### Factors of Life—III

THE first article of this series concerned vitamins themselves; the second, the proteins, fats and inorganic elements with which they must be associated; and in this, the third and last of the series, it is proposed to deal with modern foodstuffs in relation to adequate or defective dietary. The best guide to the vitamin content of foodstuffs is undoubtedly the Medical Research Council's "Report on the Present State of Knowledge of Accessory Food Factors (Vitamins)." This is compiled by a committee appointed jointly by the Lister Institute and the Medical Research Committee, and the tables therein are the most authoritative guide as to the vitamin value of foodstuffs. Though it is only possible to indicate vitamin content on the lines of absent, good, better, and best, it is possible to draw up diets which would be perfectly adequate, so long as they are used in a perfectly fresh condition, even allowing for the fact that they must be cooked to be attractive to the average person's appetite. The outstanding feature of such diets is that eggs, milk, fresh vegetables and fruits are all important, these being exactly what are used raw in cases of debility when they can be tolerated. Besides these, raw meat juice is also considerably in favour, but this is in reality a source of soluble protein. It is noteworthy that in severe cases of exhaustion, the uncooked character of the diet has for a long time been recognised as essential. Now this accords with the facts brought to light by biological investigations during the last ten years. The old adage "prevention is better than cure" applies to the new vitamin therapy; for even if bad cases of malnutrition can be cured, it is far more important to prevent the patient attaining such a condition. Much light has already been thrown upon the cause of vitamin insufficiency, which mars the beauty and spoils the physique of town-bred people. Removal of vitamin-containing proteins and fat in milling white flour is recognised as the prime cause of deficiency of industrial dietary. As regards infant welfare, good milk is the panacea put forward to remedy all troubles, but cows' milk itself is one of the most variable products. Thus, winter milk from stall-fed cows has only one-quarter the potency of



summer milk from pastured animals. The extended consumption of margarine is due to economic demand for a cheap supply of edible fat, but it results in an important loss in vitamin A when it replaces butter. Corned beef, one of the most popular and cheapest body-building materials, also lacks vitamins. Circumstances would appear to conspire to lower the vitamin content of everyday diet, for canned fruits replace more and more the fresh kinds. Aniline-dyed starch is used as egg substitute in custard powder, and even cream in bought pastries may consist mainly of mucilaginous marshmallow paste imported from America. The result is that our bread, pastries and milk tend increasingly to become so much dead material as regards nutrition unless energised by some extraneous source of vitamins. In a comparatively rich industrial country like ours, underfeeding is uncommon, and diet is varied. Yet defects are prevalent among all classes, due to diets impoverished by lack of vitamins or other body-building constituents. The salad season in summer and the growing practice of seaside holiday-making do much to ameliorate the general insufficiency of vitamins in modern foodstuffs as regards adults; but newly-born and growing children generally exhibit the "run down" symptoms due to lack of vitamins at all periods of the year, since the demand for vitamins as growth factors is greater the more rapidly weight increases. On the other hand, adults also suffer marked lowering in vitality during winter, when many vitamin-containing food materials are not available. The result of this lowered resistance to disease is seen in the epidemics so seasonable from January to March. Resistance to disease is an example of the unwritten law in the animal world, which should run "eat or be eaten." If the same nutrient fluid surrounds the living cell of a human being and that of a bacterium, the victor in the struggle for the available food is that best adapted to the conditions of the moment. The complexity of the human organism is evolution's attempt to minimise Nature's haphazard ways, so as to control accurately the concentration of food materials in the fluid bathing the living tissues, and enable these to keep out or else devour the invader. Water is the prime factor in life, for all organic syntheses of living substance occur only in water, with its peculiar ionising properties. The newer researches bring into prominence the importance of the regulating mechanism of human metabolism with its hormones and enzymes; but these latter are subsidiary factors derived from basic food factors of which water, oxygen, and vitamins are just as important as proteins, fats and carbohydrate, or essential minerals. Apart from scares and stunts, that periodically belaud or condemn vitamins, the study of the factors governing growth has come to stay, no matter whether this relates to the humble calcium, the necessary protein or the so-called vital vitamins, because all are equally important and equally necessary. Indeed, a great deal of the bio-chemical research being done is already under direct or indirect Government patronage, because, in an industrial country like Great Britain, defective diets are due to the necessity of preparing foodstuffs in order that they may keep for longer and longer periods. The enormity of the problem of feeding an industrial population with foodstuffs of adequate vitamin content is overlooked in the scares that periodically appear in the lay Press. A general demand for brown bread would lead to making of substitutes, because suitable milling machinery is not available. Further, it is impossible to educate the public palate, especially as it is always prepared to pay for the appetising character of foodstuffs, irrespective of whether this destroys their health-giving components. Crowded dwellings lacking facilities for cooking and the rush of modern life are responsible for

ever-expanding use of foods ready for use or easily dished up. The general practitioner and the man in the street are alike in wanting cut-and-dried schemes for the "correct balance" in dietetics; but one and all are futile, unless not only the history of the foodstuffs themselves is known, both as regards the preparation and cooking, but also that of the patient. Actually, what happens in practice is that healthy individuals normally get more than sufficient of the growth and nutrient factors. Any deficiency may be seasonal, or may relate to relatively few or even one only of the many conditions controlling the health of a particular person. The following are examples of conditions due to deficiency in foodstuffs (including water), which can be traced to lack of specific substances:—

<i>Disease</i>	<i>Cause</i>
Systemic starvation ...	Deficiency in calorific value or non-assimilation of food
General debility and pellagra ...	Insufficiency of ring proteins such as tryptophane
Malnutrition (loss of appetite) ...	Vitamin insufficiency
Neuroses ...	Vitamin B deficiency
Scurvy ...	Vitamin C lacking
Rickets and faulty dentition ...	Probably due to lack of one or more vitamins (A or C), and (or) absence of sufficient calcium, or of phosphoric esters in blood serum
Anæmia ...	Iron not assimilated (probably vitamin A also needed)
Goitre ...	Iodine insufficient

The whole point of this series of articles is that the real cure of each condition is restoration of full metabolic activity. Though the systematic administration of a single principle, such as insulin, vitamin A or iodine will produce extraordinary effects in diabetes, retarded growth or goitre, they fail as true remedial agents unless normal metabolism is regained. Hence undue dwelling upon the principle itself rather than its proper place in the scheme of Nature is apt to give a distorted view of its value in therapeutics. Ideas once accepted are difficult to eradicate, as witness "Xrayser II's" "We know so little about vitamins." The isolation, purification and properties of vitamins A, B and C are as well known as those of pepsin or insulin, though it must be admitted that some of the work is less than a year old. Nevertheless, the testing of tomato juice for vitamin effect on rats is quite as accurate as the physiological assay of digitalis tincture with frogs. In conclusion, whatever the remedial steps that will be taken to ensure that the nation is properly fed, these will have to be based upon the fact that the white races have, for generations, been evolved upon foodstuffs in the form of cultivated cereals (notably wheat) and cattle, with fruit and vegetables only as an addendum. The problem would appear to be the manner in which our food is to be revitalised. Though bacteriological ideals of twenty years ago are largely responsible for the present unsatisfactory conditions, the new bio-chemistry based upon vitamin researches is already bearing good fruit. Vitamins content is the criterion of value in the newer prepared foods. Patent flours, containing wheat germ, are gaining ground. Cold storage is replacing the use of preservatives, while manufacturers of canned goods are overhauling their methods of "processing," so as to prevent oxidation of vitamins. Time alone will show whether it is possible to retain all the factors of life in our industrial diets, or whether food adjuvants will be necessary to ensure that our daily diet is adequate in all respects.



### The Platinum Position

THE fact that the platinum market since the first half of this year has again showed an advancing tendency in spite of a continued limited trade demand is symptomatic of what may be expected in another month or so, when the seasonal demand in the jewellery industry reasserts itself. The filling of such requirements is almost certain to lead to a renewed advance. Consumers are well aware that they are up against a certain shortage, which cannot be effectively remedied so long as the industry in the Ural's remains so badly handicapped as it has been in recent years. There has been no reliable information about the Russian production for several years now; but the supplies forthcoming from that quarter are still small compared with pre-war period. In the United States, the chief consuming country, refiners have had to depend very largely on the more or less progressive output of Colombia. As pointed out in our issue of December 8 last year, when market conditions were dealt with, the Colombian output about doubled itself in two years as estimated in 1922. Assuming that it then amounted, as suggested, to about 70,000 oz. per annum, it is perhaps not unreasonable to assume that the output is now at least 75,000 oz. The bulk of this platinum is finding its way to the United States, as confirmed by official returns of imports issued by that country. The total purchases of crude platinum by American refiners from foreign countries, as indicated by the Geological Survey, amounted for the past year to 54,741 oz., of which 48,727 oz. emanated from Colombia, and 4,997 oz. from Russia. The United States production for 1923 was only 609 oz. against 1,008 oz. in the previous year, while last year's returns compared with 483 oz. for the year 1913, these figures being of course quite negligible as compared with the very heavy domestic consumption. It was reported some time ago that a prominent firm of home refiners had taken over a very considerable stock of refined platinum lying abroad and owned by the Soviet Government, but the figures mentioned were, to say the least, much exaggerated. It is well known that the Soviet Government had been nursing a surplus of about 30,000 oz. in recent years, and it is possible that a goodly portion of this surplus has now been disposed of. With periods of acute scarcity always apt to be encountered in platinum, it is not surprising that its value at about £27 per oz. is still nearly treble the quotation current just before the war of £9 5s. per oz., while the fact may be recalled that the "record" price actually reached over the war-period amounted to as much as £38 10s. The new platinum recovered by the American refineries within the last five years was as follows (in troy oz.):—1919, 40,220; 1920, 36,015; 1921, 51,791; 1922, 54,142, and 1923, 46,780. The details of domestic consumption for two years, as compiled by the United States Geological Survey, were as follow:—

Industry (in oz.)	1922	1923
Chemical ... ..	8,834	8,637
Electrical ... ..	24,988	18,596
Dental ... ..	11,651	16,288
Jewellery ... ..	108,527	105,699
Miscellaneous ... ..	2,838	3,156
Total consumption ... ..	156,838	152,376

It will, therefore, be seen that the use for chemical purposes is relatively small compared to that in other industries, while the lion's share of supplies is being absorbed for the manufacture of jewellery, the requirements for which in America absorb quite two-thirds of the total amount consumed. In the war-period, restric-

tions were perforce imposed on industrial use in order to conserve supplies for essential purposes, and this caused the jewellery trade to fall back on the substitute palladium. The demand for the latter became thus so pressing at one period that its market value even exceeded temporarily that of platinum. The price of palladium is at present about £18 10s. per oz., and any important rise in platinum would doubtless stiffen the price of the former. The total American consumption of palladium in 1923 amounted to 30,201 oz., against 19,216 oz. for the previous year, its use having been stimulated by the fact that the price of platinum ranged from £23 10s. to £29 in 1923, against £19 10s. to £25 in 1922. There is little doubt that platinum saw its lowest point for this year last spring at £25, and that the market is destined to reach higher figures again over the remainder of this year from the current quotation of £27. Rather interesting discoveries have been made of platinum-bearing lands in the Transvaal, and also in Spain, but reports on the subject would seem to have been somewhat exaggerated in the financial press.

### Copper Sulphate Convention

IN our issue last week (p. 356) we reported the formation of an association which has been registered by three prominent British makers of copper sulphate to deal with home and export business. The object of this combination, we understand, is to combat the aggressive selling policy of foreign manufacturers of copper sulphate, who, by means of their depreciated currencies, have been enabled to undersell British makers abroad. It is hoped that by co-ordination of manufacturing operations to bring about a reduction in overhead charges, which in recent years, and especially since the war, have largely increased owing to higher wages and costs generally. The partial rehabilitation of the British export trade has, therefore, only been possible by cutting selling prices to figures which shew a very narrow margin of profit. Dealing with the position of the industry in recent years we have previously shown in our columns that it is very largely dependent for its existence on export trade, which had been badly handicapped in this respect for some years after the armistice. Owing to the fact that under the severe war restrictions in force in England our largest Continental customers, especially Italy, had perforce to rely on their own resources in sulphate making. Italy's production was, therefore, largely developed over the war period, and has since been well maintained. This naturally resulted in very fierce competition against British makers, although the latter have nevertheless managed to recover a good deal of the lost ground in the exports in more recent years, as indicated by the official returns which for this year to the end of July amounted to 38,349 tons, or practically the same as for the corresponding period of the previous year. In the pre-war year 1913 the total British exports were, roughly, 75,000 tons, and prior to that year the returns were well over 80,000 tons per annum. Naturally there was in those days very little or no serious foreign competition. Since the armistice this competition, apart from Italy, has also asserted itself from other countries, more particularly from the United States, which in 1913 exported insignificant quantities. Over the war-period America had an excellent opportunity to secure a strong footing in those foreign markets where users were formerly chiefly dependent on the British product. In pre-war times the home production usually varied between about 90,000 and 95,000 tons per annum, the bulk of which was exported. Home needs were then comparatively small at around 3,000 tons per annum, but they have appreciably increased since the war. The output in France and Spain has likewise developed considerably of late years, but Italian competition has certainly proved the most detrimental to British makers. Italy's takings from this country in 1913 amounted to as much as 27,000 tons, and have since been reduced to negligible quantities.





# BRITISH EMPIRE EXHIBITION

## Described and Illustrated

### X

#### Malaya

The Malaya pavilion contains the exhibits of the countries grouped under the designation "British Malaya," the Crown Colony of the Straits Settlements, including Singapore, Penang, Province Wellesley, Dindings, Malacca, Labuan, Christmas Island and the Cocos Islands, the Federated Malay States (Perak, Selangor, Negri Sembilan and Pahang), and the Unfederated Malay States (Johore, Kedah, Perlis, Kelantan, Trengganu and the Bornean State of Brunei). The pavilion reproduces the Saracenic or Arabesque type of architecture adopted during the last three decades for public buildings in Malaya. Its total area is 38,750 square feet. At the top of the entrance steps is a statue of Sir Stamford Raffles, founder of Singapore. In the forestry section a single stem of rattan (which has the longest stems of any plant in the world) is fixed to the wall, this particular giant measuring upwards of 500 feet. Damar resins of themselves form an imposing exhibit, and the large variety of these are explained in great detail. Damar is used in enormous quantities in the varnish trade, and the quality depends on the species of Dipterocarp from which it is obtained. The best variety is probably damar penak, which flows from the bark wounds and hardens in the air. The purest is obtained from the branches. Pictorial representations of the method of sorting are given. Pale damar penak constitutes 23 per cent. of the quantity collected, while the yellow constitutes 48 per cent., and the remainder is amber. Dust has a lower value than either of these owing to impurities. Other varieties of damar are exhibited and labelled senggi (black), daging (red), kepong (marbled), etc. An important display is made of mangrove cutch, including the bark and tree itself (*Cerriops candolleana*). Articles are also shown which have been dyed by means of cutch, including sails, nets, etc. The gutta percha exhibit is another carefully compiled collection of samples and explanatory matter that are of much interest. The trade statistics in gutta percha are given in detail. Gutta percha, it is explained, is known as Getah Taban, a species of Palagnium, N.O. *Sapotaceae*. The native method of felling the tree is obviously objectionable, and to tap the tree is an extremely slow process. The latest method of obtaining gutta percha therefore is to extract the leaves by a process of heating and maceration. The leaves themselves are exhibited as they appear on the tree and in the various stages—after grinding, etc.—and the knives and ladders for collecting may be seen. Impurities are treaded out of the crude gutta percha by the coolies. A numerous collection of articles in which gutta percha is employed includes such familiar articles as the hydrofluoric acid bottle and sticks for tooth fillings. An interesting fore-runner of rubber in Malaya is shown in "jelutong," obtained from a species of *Dyera*, N.O. *Apocynaceae*. The method of tapping is shown in a series of photos. The principal use for it now is in the manufacture of chewing gum. An imposing array of essential and fixed oils may be seen. These include:—Patchouli, lime (hand-pressed and distilled), clove, citronella, lemongrass, vetiver, nutmeg, croton, roselle seed (*Hibiscus sabdariffa*), rubber seed, sesame, cashew nut, chaulmoogra oil and others. Many of the materials from which these

oils are obtained can be seen, and photographs of distillation methods (which are of the primitive type) are shown. Alcohol as a source of power has not yet made much headway, but when it does, Malaya has a plentiful supply of raw material, among which may be noted manioc or tapioca root, an occasional parcel of which arrives in London. To the Chinese Malaya owed the genesis of her great tin-mining industry. Malaya produces, roughly, a third of the world's supply of tin, and although there are lode workings in Malaya, the bulk of her tin-ore is won from alluvial deposits, washed down in primæval times from the hills as the stanniferous rock became gradually disintegrated. A working model of a hydraulic mine shows the great development of the primitive Chinese methods which are fully displayed in further exhibits; there are models of a Chinese mine and of a Chinese gravel pump, and specimens of the various tools and implements employed. Historic interest attaches to the model of the Rahman hydraulic tin mine at Intan, Perak, for this mine has been worked for over two centuries. There is a fine display of china clay and a collection of mineral specimens made by the geological department. An exhibit of the various substances used for smelting the ore into Straits tin, noted for its purity (99.9 per cent. and over), and an exposition of the numerous articles manufactured from Malayan metals, completes this interesting section of the pavilion. Collapsible tubes, all of which are made from tin, are exhibited by the John Dale Manufacturing Co., and includes samples of the packing of many familiar articles handled daily by pharmacists. Johnson, Matthey & Co., Ltd., exhibit a fine range of colours, principally for the ceramic industries, all of which contain salts of tin. Tungsten, a product used in Osram electric lamps, and specimens of the rare earth salts (*zircon* and *didymium*) are also shown. At the extreme end of the Central Hall stands a semi-circular commerce exhibit, comprising all the exports of Malaya in the form in which they leave her ports, together with the amount exported in the last year available. Here are included gum benzoin (1,303 tons), rubber, pepper (19,194 tons), illipe nuts, cloves (711 tons), and coconut oil (7,255 tons), cubebs (74 tons), dragon's blood (32 tons), gamboge (6 tons), mace, nutmegs, sandalwood (318 tons), oils, beeswax, camphor and other articles, all effectively labelled and described. Rubber is the chief agricultural product of the Malay peninsula, it being estimated that the large sum of £150,000,000 is invested in rubber companies owning estates in the Middle East. British Malaya supplies more than half of the world's requirements in rubber. The story of the introduction of rubber into Malaya is one of the great romances of industry. It has been told many times, and at this point it may suffice to say that the gigantic industry of the East commenced at Kew Gardens. A large area is devoted to articles made from plantation rubber, and in the agricultural gallery adjoining is an attractive demonstration of the whole evolution of rubber, from the planting of the seed to its emergence in the form, say, of a hot-water bottle. There are model trees with the latex actually flowing. This is achieved by utilising a hollow tree in which a cylinder of ammonia latex is concealed. Specimens of all the implements and machinery involved in its collection, coagulation, preparation for export and packing are further points of interest in a unique display.



## Dangerous Drugs Act, 1920

We are informed that the attention of the Home Secretary has been called to the fact that the wording of the conditions attached to the Order made on August 15, 1921, under the Dangerous Drugs Act, 1920, for the exemption of certain hospitals, etc., from the Dangerous Drugs Regulations, in certain respects imposed restrictions on medicines which did not themselves come within the scope of the Regulations. In order to make clear that such substances are not to be regarded as subject to the conditions attached to the Order, the Secretary of State has added to both Schedule I and Schedule II a new condition. The alteration has been effected by the issue of the following new Order (Stationery Office, 1d.):—

### DANGEROUS DRUGS (HOSPITAL GENERAL EXEMPTION) ORDER (1924)

*Order, dated August 9, 1924, made by the Secretary of State, in pursuance of No. 16 of the Dangerous Drugs Regulations made under the Dangerous Drugs Act, 1920 (10 & 11 Geo. 5, c. 46), exempting certain Hospitals and other Institutions from the operation of the Regulations on compliance with certain conditions.*

In pursuance of No. 16 of the Dangerous Drugs Regulations (hereinafter called "the Regulations") made under the Dangerous Drugs Act, 1920, I hereby exempt from the operation of the Regulations any hospital or infirmary, asylum, Poor Law Institution or sanatorium supported by any public authority or out of any public funds or by a charity or voluntary subscriptions, in which the drugs are dispensed by a duly qualified medical practitioner or by a fully qualified pharmacist or (in the case of a Poor Law Institution) by a dispenser holding the qualifications recognised by the Minister of Health, whose appointment as dispenser has been approved by the Minister, if and so long as the conditions in Schedule I of this Order are complied with:

and I also exempt from the operation of the Regulations any hospital or infirmary, asylum, Poor Law Institution or sanatorium, supported as aforesaid, to which the foregoing provision does not apply to the extent indicated in, and subject to compliance with, the conditions in Schedule II of this Order.

Provided that either of the foregoing exemptions may be revoked at any time by the Secretary of State either generally or in respect of a particular hospital or infirmary, asylum, Poor Law Institution or sanatorium.

Provided also that any hospital or infirmary, asylum, Poor Law Institution or sanatorium exempted under the foregoing provisions may be inspected in respect of the observance of the said conditions at any time by any person authorised by the Secretary of State for the purpose.

This Order shall be substituted for the Order on the same subject made on August 15, 1921, which is hereby revoked, and any reference to that Order shall be construed as a reference to this Order.

This Order may be cited as the Dangerous Drugs (Hospital General Exemption) Order (1924).

ARTHUR HENDERSON,

One of His Majesty's Principal Secretaries of State.  
Home Office, Whitehall,  
August 9, 1924.

#### Schedule I

[1-9. See C. & D., II, 1921, p. 287.]

10. Nothing in this Schedule shall affect any medicine or other substance to which the Regulations do not apply.

#### Schedule II

[1-5. See C. & D., II, 1921, p. 287.]

6. Nothing in this Schedule shall affect any medicine or other substance to which the Regulations do not apply.

STUDENTS for the 1924-25 session of The Sir John Cass Technical Institute, Jewry Street, Aldgate, London, E.C., will be enrolled on September 15, 16, and 17, from 5 to 8.30 p.m.

## Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1924, p. 289.

(From "The Trade-marks Journal," August 13, 1924.)

- "TRUKOY"; for non-poisonous medicines (3). By M. Rigg, 50 Camberwell Grove, London, S.E.5. 449,150.
- "PROPHYLAXOL," with conventional design; for a medicated food for tuberculosis, etc. (3). By A. E. Blacker, 91 London Road, Chelmsford. 449,454.
- "LES MOISETTES"; for surgical instruments, etc. (11). By Emmie H. M. Gale, The Rectory, Great Cheverell, Wiltshire. 449,596.
- "HOMOGEN," on picture of cow and outline sketch of Australia (map and cow devices disclaimed); for infants' and invalids' foods, etc. (42). By Commonwealth Milk Products Proprietary, Ltd., 483 Collins Street, Melbourne, Australia. 439,605.
- "REIGATE," with picture of gate on circle ("Reigate" disclaimed); for essences (42). By White, Tomkins & Courage, Ltd., 48 Mark Lane, London, E.C.3. 448,424. (Associated.)
- "BANGLE," with picture of same; for goods (47) and for perfumery, etc. (48). By W. Gossage & Sons, Ltd., Widnes, Lancashire. 449,219/220. (Associated.)
- "MERYL-PIPER BOWMER'S ILFORD," with device of boy piper ("Bowmer's" disclaimed); for perfumery etc. (48). By J. B. Bowmer, 40 Cranbrook Road, Ilford. 448,233.

(From "The Trade-marks Journal," August 29, 1924.)

- "RUSTOL"; for a rust-preventing preparation (1) and for a rust remover (50). By British International Industries, Ltd., 44-46 Kingsway, London, W.C.2. 444,499/500. (Associated.)
- "SCHELLAN" and "KOPAN"; for chemicals (1). By Kunstharzfabrik Dr. F. Pollak Gesellschaft mit Beschränkter Haftung, 173 Linke Wienzeile, Vienna VI. 445,784/785.
- "PHILOCOL"; for chemicals (1). By F. Dobler, 49 Rue du Rocher, Paris. 445,712.
- "NEHYDRAPHTAL"; for all goods (1). By Chemische Fabrik Pott & Co., Priesnitzstrasse 39, Dresden, N. 446,808.
- "SPEDDO," on label device, including arrow-pierced heart and girl holding tin; for sanitary chemicals (2) and for a cleanser for glass, etc. (47). By the United Alkali Co., Ltd., Cunard Building, Pier Head, Liverpool. 444,035/036. (Associated.)
- "TRYPARSAMIDE"; for medicines (3). By the Rockefeller Institute for Medical Research, 66th Street, New York, U.S.A. 446,503.
- "SENNAFOLINE"; for all goods (3). By Society of Chemical Industry in Basle, 141 Klybeckstrasse, Basle, Switzerland. 449,791. (Associated.)
- "ANTICALORINE (CORBYN)" ("Corbyn" disclaimed); for a medicinal chemical (3). By Corbyn, Stacey & Co., Ltd., Hunts Lane, Stratford, London, E.15. 448,923.

#### Trade-mark Altered

DR. J. COLLIS BROWNE'S CHLORODYNE.—Leave has been given to J. T. Davenport, Ltd., to alter Trade-mark No. 3,411.

(From "The Trade-marks Journal," August 27, 1924.)

- "SULDURA"; for all goods (1). By the Yorkshire Dyeware and Chemical Co., Ltd., 27 Kirkstall Road, Leeds. 448,735.
- "CUTIE-GIRL DYE" with device of kneeling girl; for dyes (1 and 4). By Wm. Edge & Sons, Ltd., 50 Raphael Street, Bolton. 449,684/685. (Associated.)
- "ENVAROL" and "VERONIX"; for all goods (1). By The Envarcol Co., 89 Dawlish Road, Leyton, E.10. 449,779/780. (Associated.)
- "LAVOCLEAN"; for all goods (2) and (47). By Lavoclean, Ltd., 69 Uperne Road, Chelsea, S.W.10. 447,318/319. (Associated.)
- "UNIGRIP" on oblong label; for fluid and powder disinfectants (2). By H. W. Barton, 34 Station Road, Forest Gate, London, E.7. 448,987.
- "CARBEX"; for an insecticide for fruit trees (2). By E. C. Longmate, 92 Norfolk Street, King's Lynn. 449,555.
- "SALNAS"; for medicines for catarrh, etc. (3). By H. Sinclair, "Chowringhi," St. Anthony's Road, Blundellsands, Lincs. 449,649.
- "MANHAULK"; for a pile medicine (3). By J. T. Abbott, 108 Dovecot Street, Stockton-on-Tees. 449,960.
- "LEKTROSOK"; for boot socks (38). By The Electrosok Trading Co., 4 Maynard Street, London, W.C.2. 448,701.



## Trade Report

42 Cannon Street, E.C.4, September 11.

APART from crude drugs there is a fair amount of activity in Mincing Lane produce, and the undertone continues firm, with prices generally on the upward trend. The larger volume of Continental buying reported during the past fortnight has fallen off somewhat, but some of the spices are active for this account, particularly pepper, and the demand for other produce may easily revive again in view of the better feeling created by the conclusion of the international agreement on reparations. The civil war in China has not had any pronounced effect on produce from that source, with the possible exception of egg albumen, star anise and cassia oils, which are dearer. Of particular interest is the rapid advance in American peppermint oil, and a large forward business has been done in new crop at rising prices. The fact that such a strong advance should take place with new crop in sight is mystifying and portentous. Japanese mint oil is firm and in fair demand; menthol has been quiet throughout. Buyers show no special interest in opium and the price is nominal. Dill and caraway seeds are firmer. In pharmaceutical chemicals prices continue steady, but business is only poor. Cocaine is about 50 per cent. higher as the result of an understanding among makers. Bromides are firm at previous prices. Calcium lactate is inclined to be firmer, and paraformaldehyde is cheaper; citric and tartaric acids both continue weak and prices are a matter of negotiation. Among industrial chemicals, business continues on the small side, but conditions are expected to improve towards the end of the month. Acetone, formaldehyde, sal ammoniac, sodium prussiate and methyl alcohol are more or less cheaper. Among fixed oils, business has been quite good: castor is slightly easier and coconut is dearer, likewise palm and palm kernel oils. Turpentine is about 9d. cheaper, while linseed and Hankow wood have advanced.

Higher	Firmer	Easier	Lower
Anise oil	Dill seed	Acetanilide	Acetone
Cassia oil	Hemp seed	Bergamot oil	Castor oil
Cocaine	Lemongrass oil	Citronella oil	(Hull)
Coconut oil	(c.i.f.) (Cochin)	c.i.f. (Cey.)	Geranium oil
Cinnamon chips	Linseed oil	Formaldehyde	Methyl alcohol
Mint oil	Milk sugar	Naphthas,	Turpentine
Pepper	Nutmeg oil	solvent	
Peppermint oil	Palm-kernel oil	Pitch	
(Amer.)	Palm oil	Paraformaldehyde	
Pimento		Potash	
Sugar		carbonate	
Wood oil		Sal ammoniac	
		Soda prussiate	
		Sodium	
		salicylate	
		Tartaric acid	

### Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	September 3	September 10
Amsterdam	Fl. to £	12.107	11.60—11.60½	11.61½—11.61½
Berlin	M to £	20.43	18.80—18.90 bilus*	18.60—18.75 bilus*
Brussels	Fr. to £	25.22½	89—89½	89½—89½
Calcutta	Per rup.	24d.	17½d.—17½d.	17½d.—17½d.
Christiania	Kr. to £	18.159	32.45—32.47	32.33—32.36
Constantinople	Ps. to £	110	830—845	815—830
Greece	Dr. to £	25.22½	245—247	250—252
Italy	Lire to £	25.22½	101½—101½	101.70—101.80
Kobe	Per yen	24.58d.	22½—22½d.	22½d.—22½d.
Lisbon	Escu.	53d.	14½d.—14½d.	14½d.—14½d.
Madrid	Pts. to £	25.22½	33.82—33.85	33.85—33.88
Montreal	\$ to £	4.86½	4.47½—4.47½	4.44½—4.44½
New York	\$ to £	4.86½	4.47½—4.47½	4.44½—4.44½
Paris	Fr. to £	25.22½	83.60—83.70	84.05—84.10
Singapore	Per dol.	—	28½d.—28½d.	28½d.—28½d.
Switzerland	Fr. to £	25.22½	23.73—23.75	23.67—23.69
Vienna	Kr. to £	24.02	316.000—320.000	315.000—317.000

\* Nominal.

### Cablegram

NEW YORK, September 11.—Business is quiet. Pepper mint oil has advanced to \$4.85 per lb. Cartagena ipecacuanha is higher at \$2.25 per lb., and taraxacum has advanced to 45c. per lb.

### Crude Drugs, etc.

ALBUMEN.—Prime Chinese hen is dearer on the spot at 4s. 8d. to 4s. 9d. per lb., which has been paid for new season's. To arrive, September-October shipment is quoted at 4s. 8d. per lb. c.i.f. rather buyers.

ALMONDS.—Business has been done in new crop to arrive, and higher prices are asked in consequence. Stocks, with the exception of Morocco, are short at present, and there is not likely to be any quantity of new crop for the next three or four weeks. Jordan, and Valencia are steady but in restricted demand.

ALOES.—The exports from the Union of South Africa during April amounted to 63,784 lb. (£497), against 22,145 lb. (£130) in April 1923.

BALSAM TOLU.—The "Balbao" has brought 15 cases to London via Barcelona, which will be offered on the market. Spot prices are from 9s. to 9s. 3d. per lb.

BUCHU.—The exports from the Union of South Africa during April amounted to 43,800 lb. (£4,190), against 22,403 lb. (£2,609) in April 1923.

CARAWAY SEED is firmer. Dutch shippers quote 47s. per cwt., c.i.f., for prompt shipment, and October-December shipment at 45s. 6d., c.i.f.

CASCARA SAGRADA continues quiet, with two-year-old bark offering at 120s. per cwt. and three-year-old at 160s.; to arrive, 70s. to 75s. c.i.f. is quoted. The "Dominion Miller," from Pacific Coast ports, has brought three consignments, aggregating 6,787 bags, to London; the "Electrician," from Tacoma, 1,302 bags; and the "Hessen," from Portland, 300 bags. A fair average weight of 300 bags is five tons.

CASCARILLA continues very scarce, there being practically nothing offered. It is stated that there is only 2 cwt. quills in London, for which 4s. 6d. per lb. is wanted. Common siftings are held for 2s. per lb.

CHAMOMILES show no change, and it is believed that the price of fair white Belgian have touched bottom, the value of such being about 120s., with a few good white at 130s.; ordinary dull white are 105s., and common mixed 95s. per cwt.

CLOVES have been steadier, both on spot and forward. Zanzibar on the spot is from 1s. 0½d. to 1s. 1½d. per lb. as to quality. October is 10d. to 10½d., and October-December has been sold at 9½d. to 9¾d. c.i.f. The landings for the week ending September 6 were nil, the deliveries being 354, leaving a stock of 22,319 bales, against 17,232 bales in 1923. The landings so far this year have been 37,964, against 31,679, and the deliveries 35,022, against 16,476 a year ago.

COD-LIVER OIL.—Our Bergen correspondent writes, on September 8, that the market is firm. The quotation for non-freezing, steam-refined quality is unaltered at 103s. per barrel, c.i.f. London.

CONDURANGO.—A small parcel which arrived in Liverpool was offered at auction there and was bought in: 9½d. to 10d. per lb. is value.

DRAGON'S BLOOD.—The "Carnarvonshire," from Singapore, has brought 14 cases.

EUONYMUS BARK OF ROOT is in increased demand with c.i.f. offers at 4s. per lb. in quantity. Spot values are from 4s. 3d. to 4s. 6d.

IPECACUANHA.—The "Port Nicholson," from Monte Video, 45 bales to London.

LIME JUICE.—In view of the short crop this year importers are suggesting that manufacturers take advantage now of the present low prices. Good raw is obtainable at from 2s. 9d. to 2s. 10d. per gallon.

MENTHOL has been quiet throughout the week at from 56s. to 57s. per lb. for Kobayashi-Suzuki on the spot; January-March shipment has sellers at about 44s. c.i.f.

MERCURY.—The market has continued nominal at from £12 15s. to £13 per bottle, business not having been of sufficient importance to test the market. The undertone is certainly easy, although efforts are made to hold up prices in some quarters.



**OPIUM.**—The quotation for Turkish opium is unchanged at 3s. 3d. per unit, but this figure is quite nominal, as buyers are showing practically no interest at the moment.

**CONSTANTINOPLE, September 3.**—During the period August 19 to date, arrivals were as follows:—Druggists', 294 cases; "softs," 47 cases; Malatia, 84 cases. Last year's corresponding figures were 616, 11, and 48 respectively. The stock was as follows:—Druggists', 121 cases; "softs," 15 cases; Malatia, 38. Last year's corresponding figures were 301, 37 and 16. During the past fortnight sales were as follows:—121 cases druggists' at from £T36 to £T41 per oke; 15 cases "softs" at £T37 to £T45, and 38 cases Malatia at £T35 to £T38 10s. From the arrivals and sales it will be observed that the actual stock is not increased, and that there is a steady demand for exportation. There has been some demand also at Smyrna and Salonika. As the collection of the crop has been made during heavy rains, the percentage of morphine has, with rare exceptions, been much reduced.

**PEPPER** has been in good demand, principally for the Continent, and prices have advanced. Sales of fair black Singapore have been made at from 5½d. to 5d. to 4½d. per lb. To arrive, the sales include August-October at 5½d. c.i.f., October-December at 5½d. c.i.f. White Muntok is also dearer, the sales including spot at 8½d. to 9d. per lb., September-November shipment at 8½d. to 9d., and October-December at 8½d. c.i.f. to 9½d.

**PIMENTO** has advanced to 3½d. per lb. on the spot, and to arrive 30s. per cwt. c.i.f. has been paid. It is said that the recent hurricane in the Leeward Islands has damaged the crop. Spot stocks are light—only 1,205 bags, against 6,362 bags a year ago.

**PODOPHYLLUM ROOT.**—New crop was dug freely with opening prices good, but consumers interested have not purchased, and demand having fallen, digging ceased. 68s. to 70s. per cwt. c.i.f. is quoted.

**RHUBARB** has been selling more freely of late, buyers taking the view that prices may advance; so far there has been no change. Shensi has changed hands at from 3s. to 3s. 3d. per lb., according to quantity and description. Sales of Canton have been made at 2s. 6d. Rough round, High dried is quoted at 1s. 6d. per lb.

**SEEDS.**—There is nothing fresh to report in the seed market, which still remains quiet but firm at the following prices: Spanish ANISE, 73s. per cwt., and Russian, 60s. CANARY SEED keeps firm, with sellers of Mazagan at 29s. 9d. per cwt. on the spot and 29s. c.i.f., and Spanish of good quality is 35s. on the spot. Maltese CUMIN SEED is steady at 95s. on the spot, and Morocco is 97s. 6d. spot. New crop CORIANDER SEED is 26s. per cwt. on the spot. DILL SEED is 21s. 3d. per cwt. Morocco FENUGREEK SEED is very scarce on the spot at 23s. 6d. per cwt., and Indian is 22s. 9d. Manchurian HEMP SEED is firmer at 18s. Morocco LINSEED is 24s. per cwt. on the spot, and English yellow MUSTARD SEED is 36s. to 38s. per cwt.

SENEGA is obtainable at 2s. 9d. per lb. on the spot, and to arrive from 2s. 7½d. to 2s. 8d. c.i.f. is quoted.

**SHELLAC** has been quiet throughout, with usual standard TN orange quality closing at from 305s. to 310s. per cwt. on the spot: fine second orange is 340s., prime button 335s., AC cakey 265s., GAL 250s. to 255s. Futures have declined, the sales including December 285s. to 280s. to 285s.

**STARCH PRODUCTS.**—Dutch maize starch powder (corn-flour) is quoted at 18s. 6d., and American at 19s. per cwt. net, on the spot. American maize starch crystals (for laundry use) is 22s. 6d. net, and Dutch 23s. Best English rice starch crystals is 36s. to 37s., and Continental 30s. per cwt. Dutch farina is 18s. 6d. for superior and 17s. per cwt. for prime; superior Dutch (maize) dextrin is 23s., and No. 2 21s. 6d.; American canary dextrin is 22s. 3d., and white 22s. per cwt., ex store, London.

**SUGAR.**—The trade demand for ready sugar has been brisk and the bulk of the business has again gone to home refiners. Further recent advances in the latter terms were followed by another of 6d. on Tuesday this week for all descriptions of refined making cubes 45s. 9d. to 46s. 9d., a rise on the week of 1s. per cwt.

**TARAXACUM.**—Sellers of English quote 120s. per cwt. for October and later delivery.

**VANILLA.**—At auction on Friday full prices were

obtained for the small quantity offered. 84 tins Seychelles offered and sold, comprising firsts, 6 to 8 in., 38s. to 40s.; 3½ to 6 in., 35s. to 37s.; loose, 34s.; splits, 34s. to 37s.; common splits, 30s. to 33s.; and mouldy, 10s. to 20s. per lb.

### Essential Oils

THE chief interest of the week is centred in American peppermint, and Japanese mint oils, both of which have been in active demand, and are dearer. Star anise and cassia have also advanced. Cochin lemongrass is also dearer. Bergamot continues to decline and Ceylon citronella is easier to arrive. Bourbon geranium oil is cheaper.

**ANISE (STAR).**—"Red Ship" has been in fair demand and is firmer on the spot, holders asking from 2s. 5d. to 2s. 6d. per lb. The c.i.f. quotation for drums is dearer at 2s. 2d. to 2s. 3d.; there are buyers of cases at 2s. 3½d. c.i.f., but up to 2s. 5d. has been quoted. Prices vary from day to day.

**BERGAMOT** is a shade easier for some brands at from 15s. 9d. to 16s. 3d. per lb. c.i.f., prompt shipment, for 37 to 39 l.a. On the spot sellers quote 16s. to 16s. 6d.

**BOIS DE ROSE (FEMELLE)** is easier at from 18s. 6d. to 19s. per lb.

**CASSIA** is dearer on the spot for 80 to 85 c.a. at from 9s. 6d. to 9s. 9d. per lb. The price quoted for shipment is 9s. 1½d. to 9s. 3d. c.i.f.

**CEDARWOOD.**—American is firm on the spot, with sales at from 2s. 9d. to 3s. per lb. as to quantity.

**CINNAMON.**—Ceylon leaf on the spot is offered at 6d. per oz. in cases and less for drums. The price quoted to arrive is 4½d. c.i.f. For Seychelles oil (about 90 per cent. eugenol) 7s. per lb. is quoted on the spot.

**CITRONELLA.**—Ceylon is quiet at 3s. 4d. per lb. on the spot, September-October shipment offering at 3s. c.i.f. Java oil is firm and in good demand at 5s. 7d. to 5s. 7½d. per lb.; September-October shipment is 5s. 4d., c.i.f.

The total exports from Ceylon in the seven months, January 1 to July 31, amounted to 848,702 lb., compared with 700,854 lb. in the corresponding period last year. The following were the principal importing countries (last year's figures are given in parentheses):—U.K., 308,137 lb. (153,667 lb.); U.S.A., 367,112 lb. (468,544 lb.); France, 31,626 lb. (23,815 lb.); Germany, 46,727 lb. (10,329 lb.); Holland, 11,243 lb. (7,609 lb.); Italy, 19,445 lb. (1,176 lb.); Victoria, 8,182 lb. (3,061 lb.); N.S.W., 8,029 lb. (1,870 lb.); Queensland, 1,736 lb. (— lb.); India, 22,471 lb. (12,166 lb.); China, 4,481 lb. (1,792 lb.); Japan, 7,871 lb. (2,272 lb.).

**CLOVE.**—English distillers quote 7s. per lb. for B.P oil and 7s. 6d. for higher percentage.

**EUCALYPTUS** is firm for shipment, September-October offering at 2s. 0½d. per lb. c.i.f. for 80 to 85 per cent. cineol. On the spot, 2s. 1½d. to 2s. 2d. is quoted. Lower percentage oil is 1d. to 1½d. per lb. below this.

**GERANIUM.**—The price quoted for shipment from Réunion is cheaper at 270 fr. per kilo (= 29s. per lb.). On the spot holders quote from 34s. to 34s. 6d. per lb. or a shade less for quantity. Algerian is unchanged at 34s. 6d. to 35s. on the spot.

**LAVENDER.**—New crop French oil, 38 to 40 per cent. ester, varies considerably according to holder. In some directions spot sales have been made at below 27s. per lb. Up to 30s., however, is asked, and prices are very firm from France, a recent quotation being 280 fr. per kilo (= about 30s. per lb.). For over 40 per cent. oil 32s. on the spot is quoted.

**LEMON** is dull and unchanged on the spot, with sellers at 2s. 10d. to 3s. per lb. The c.i.f. prices continue on a higher level. A report from Palermo dated September 2 states that the relative smallness of existing stocks and the probability that there will be little or no carry-over to next season, has rendered the market sensitive to the least demand. As one or two orders have come in, prices have advanced, and the market seems firm.

**LEMONGRASS.**—Cochin is firmer for September-October shipment at 3s. 6d. per lb. c.i.f.; on the spot sellers quote 3s. 6d.

**LIME.**—West Indian distilled is steady at 5s. 6d. per lb., and it is difficult to obtain offers from the source. Hand-pressed is nominal at 9s., supplies being very short.



**LINALOE WOOD.**—Mexican on the spot is quoted at 19s. per lb.

**MINT.**—Japanese dementholised Kobayashi-Suzuki has been in fair demand at from 17s. 3d. up to 17s. 6d. per lb., which is the price at the close. There are buyers of August-September shipment at 16s. 6d. c.i.f. January-March shipment has been sold at 11s. 9d. to 12s. c.i.f.; up to 12s. 6d. is now quoted.

**NUTMEG.**—Spot demand is quiet, but the price is firm at 6s. 6d. per lb.

**ORANGE.**—Sicilian sweet is quiet and unchanged at from 10s. to 10s. 6d. per lb. The price quoted for shipment is 9s. to 10s. c.i.f. West Indian sweet is slow of sale, with spot offering at from 8s. 6d. to 9s. per lb. For quantity this would be shaded in some directions. The arrival price is 8s. c.i.f.

**PALMAROSA.**—Spot sales have been made at from 15s. 6d. to 16s. per lb. for good quality oil, which is scarce.

**PENNYROYAL.**—For recent arrivals of Spanish oil the lower prices of 6s. 6d. to 7s. per lb. are quoted, according to quantity.

**PEPPERMINT.**—American natural oil has again shown a substantial advance, and a large business has been done in new crop to arrive at rising prices, cables at the close on Wednesday quoting 26s. to 26s. 6d. per lb. c.i.f. for leading brands. Supplies on the spot are extremely short, with sales at up to 25s. to 26s., and 27s. asked, with unwilling sellers. No estimate can yet be given as to the probable outturn this year, but it is conceded that a larger area than usual was placed under cultivation. Distillation was retarded at least a month, however, and when commenced, rains at time of cutting again led to a partial postponement. H.G.H. is quoted at 30s. on the spot. Dutch B.P. blended oil is dearer at 19s. on the spot.

**PETITGRAIN.**—Paraguayan is unchanged on the spot at from 8s. 6d. to 8s. 9d. per lb., as to seller.

**ROSEMARY.**—Spanish is unchanged at from 1s. 9d. to 1s. 10d. per lb.

**SASSAFRAS.**—Genuine American oil is quoted on the spot at about 8s. per lb.

**SPIKE.**—Spot sales have been made of Spanish at 4s. 6d. per lb., at which the price is firm. New crop oil is not plentiful in Spain, and, as previously stated, the price is expected to advance.

#### Pharmaceutical Chemicals, etc.

The chief item of interest in this section is an advance of about 50 per cent. in the price of cocaine, as the result of a convention between the makers. Bromides remain very firm at full rates; both citric and tartaric acids continue very weak. Paraformaldehyde and acetanilide are on the easier side.

**ACETANILIDE** is dull and easier as offered by dealers at about 2s. per lb.

**ASPIRIN** is unaltered at about 3s. 3d. per lb. for good brands.

**BARBITONE** is available on spot, with dealers asking up to 16s. per lb.; market is very quiet.

**BENZALDEHYDE**, free from chlorine, meets with occasional small business, with the spot figure about 3s. 1d. to 3s. 3d. per lb.

**BENZOATES** are firmer, with a difficulty in obtaining import licences. Sodium benzoate varies from 2s. 4d. to 2s. 6d. per lb., according to quantity, and benzoic acid ex toluol is about 3s. per lb.

**BENZOIC ACID (B.P.)**, reliable make, is quoted at 3s.; some offers may be cheaper: ex toluol is about 2s. 6d. per lb.

**BENZONAPHTHOL** is nominal on an idle market at 5s. 6d.

**BENZYL BENZOATE** is quiet at 2s. 9d. to 3s. per lb.

**BETANAPHTHOL** has met with a little inquiry on spot, with holders asking about 3s. per lb.

**BROMIDES** continue very firm and full prices are being paid. Ammonium, 1s. 3d. to 1s. 5d. per lb.; potassium, B.P. crystals and granular, 1s. to 1s. 2d.; sodium, B.P. crystals and granular, 1s. 2d. to 1s. 4d. per lb.

**BROMSTYROL** is unchanged at from 8s. to 8s. 6d. per lb.

**CALCIUM LACTATE** is in fair demand and steady at about 1s 7d. to 1s. 9d. per lb., according to quantity.

**CHLORAL HYDRATE** is difficult to locate at under 4s. 6d. per lb. for duty-paid crystals on spot.

**CITRIC ACID** is very weak, and price is a matter of negotiation.

**COCAINE.**—As the result of the formation of a convention among the makers (Dutch, German and French) the prices have been advanced by practically 50 per cent. The minimum rate for hydrochloride has been fixed at 24s. per oz., ex wharf, London, and forward delivery at 18s. per oz., c.i.f. Previously makers had been competing keenly and the rate of profit had proved unremunerative.

**COUMARIN** is firmly held on the spot at 18s. 6d. per lb. **CREOSOTE (B.P.)** shows no change, with the market steady at 2s. 6d. per lb.

**CREOSOTE CARBONATE** is seldom called for, and the price is nominal at about 6s. 3d. per lb.

**GUAIACOL** is obtainable at 11s. 6d. per kilo, c.i.f., excluding key industry duty.

**GUAIACOL CARBONATE** seems of little interest; dealers continue to offer at about 11s. 9d. per lb.

**HELIOTROPINE** on the spot is unchanged at 6s. 6d. per lb.

**HEXAMINE.**—The volume of business continues limited, but prices keep steady at from about 3s. 7d. to 3s. 8d. per lb.

**HYDROQUINONE.**—Dealers' prices show no change, with business fair: quoted from 4s. 3d. to 4s. 6d. per lb., according to quantity.

**LACTIC ACID** has been selling in small lots at about 2s. 8d. per lb. for B.P. technical; 50 per cent. is £45 per ton, delivered.

**METHYL SALICYLATE.**—Fair sales are recorded, but prices are cut to a narrow margin: spot, B.P. 1s. 10d. to 2s. per lb.

**METHYL SULPHONAL** remains quiet, with spot offers at about 26s. per lb.

**MILK SUGAR** is distinctly firmer, and although there may be isolated offers still below 80s. per cwt. for German make important quantities are not obtainable at this figure to come forward. The spot value is therefore about 85s. per cwt.

**MORPHINE.**—Makers' prices for morphine salts are unchanged, hydrochloride powder being quoted on the basis of 14s. per oz.

**PARAFORMALDEHYDE** is cheaper, being offered in the region of 3s. per lb. on a dull market.

**PHENACETIN** is called for now and again, with most sales from 6s. to 6s. 3d. per lb., according to quantity.

**PHENAZONE** is steady, with dealers finding little difficulty in obtaining their price of about 7s. 3d. to 7s. 6d. per lb.

**PHENOLPHTHALEIN** can be had at 6s. per lb. from importers, but there is little doing.

**POTASSIUM IODIDE** is in fair steady demand. British makers quote from 16s. 8d. to 17s. 5d. per lb., according to quantity.

**POTASSIUM PERMANGANATE (B.P.)**—Inquiry continues good, with dealers quoting for arrival at cheap rates for quantities: about 7d. to 7½d. per lb., in drums, on spot.

**RESORCIN.**—The market continues irregular on offer, but orders for quantities could no doubt be placed at about 5s. 6d. per lb.

**SALICYLIC ACID** has been in fluctuating demand on spot at from about 1s. 6d. to 1s. 7d. per lb. for B.P.

**SODIUM BENZOATE** shows no change, with spot offers at about 2s. 6d. per lb.

**SODIUM SALICYLATE.**—Conditions are about the same as last week, with B.P. powder cheaper at about 2s. to 2s. 2d. per lb. and crystals about 2s. 3d. per lb., there being some demand for the latter.

**SULPHONAL** is seldom called for on spot: dealers quote at about 15s. 6d. per lb.

**TANNIC ACID.**—B.P. *leviss* is steady on spot and in fair demand at 2s. 11d. per lb.

**TARTARIC ACID** is very weak on spot. Sales have been made as low as 11d. per lb. for B.P. crystals in quantities.

#### Industrial Chemicals, etc.

London, September 10.

CONDITIONS are much about the same in this market, with business on the small side. An improvement is looked for towards the end of this month. Acetone, formaldehyde, sal ammoniac, sodium prussiate and methyl alcohol have moved in buyers' favour.



ACETIC ACID is unchanged; market is dull and rather weak; 80 per cent. technical, £43; 80 per cent. pure, £44 per ton, in barrels; 98 per cent. glacial, £69 per ton, in glass demijohns, ex wharf, London.

ACETONE.—Dealers are offering British Government specification at the lower price of £97 10s. per ton.

ALUM has been in slow demand on spot, with a few lots available at about £9 15s. per ton, for lump.

AMMONIA (ANHYDROUS) is quieter; dealers' prices for 90 to 95 per cent. in loaned cylinders are from 1s. 5½d. to 1s. 6d. per lb.

AMMONIUM CHLORIDE (grey galvanising quality) meets with a fair demand on spot, at about £30 per ton.

ANTIMONY.—There has been a stronger tendency all round, which is chiefly the outcome of the more serious news from China, while offers from that quarter are scarce, and the terms now mentioned range from about £40 to £42 c.i.f. for shipment. Spot lots stand at about £42. English regulus is considerably dearer at £49 10s. to £52, and even more for special brands. There has been an advance in English white oxide of antimony, which stands at around £50 per ton.

ARSENIC.—The outlook in the American market having remained exceedingly disappointing with the price there rather easier at somewhat under 8 cents per lb., there has been as yet no notable renewal of inquiry from that quarter. The Cornish mines are quoting about £43 10s. to £44 10s. f.o.r., and terms delivered London are called £45 10s. to £46 10s. There is but little Japanese offering.

BARIUM CHLORIDE is unaltered with the spot price for 98 to 100 per cent. prime white crystals about £14.

CADMIUM.—The tone is quite steady, with prices varying from 2s. 6d. to 2s. 9d. per lb., according to percentage of purity.

COPPER SULPHATE.—There has been a fair export demand, quotations mostly ranging from about £24 10s. to £25 for casks f.o.b., less 5 per cent. discount. A rather more hopeful view is held of export prospects, due to the formation of the British Copper Sulphate Association. (See p. 396.)

CREAM OF TARTAR is again easier with dealers offering 99 to 100 per cent. powder at about 80s. to 81s. per cwt., in one-ton lots. Market quiet.

FORMALDEHYDE shows a decline with dealers quoting at about £51 per ton for 40 per cent. volume on a dull market.

GLAUBER'S SALT continues quiet, with spot parcels at about £3 15s. per ton for commercial quality, in single bags.

OXALIC ACID is on the easy side, being dull and unsteady at from 3½d. to 4d. per lb.

POTASSIUM CARBONATE is slightly cheaper on spot; 90 to 92 per cent., £23; and 96 to 98 per cent., £24 per ton, in casks.

POTASSIUM CHLORATE is offered for shipment from the Continent at about 2½d. to 2¾d. per lb., according to quantity.

SAL AMMONIAC is easier, with a fair business in spot supplies; dog-tooth crystals, about £44; medium, £41 10s.; fine white crystals, £26 per ton.

SALTCAKE for export continues to be quoted at about £3 10s. per ton, f.o.b.; inquiry small.

SODIUM PRUSSATE is cheaper at 4d. per lb. on a weak and dull market.

SODIUM SULPHIDE seems of no interest; dealers' prices are unchanged; 60 to 62 per cent., solid, £14; broken, £15 per ton, in drums.

SULPHUR.—There is a quiet demand, and the tone is steady. Sicilian and American raw sulphur is quoted from £5 10s. to £6 per ton delivered Manchester. Refined is £9 12s. 6d. for Sicilian flowers and £7 15s. for roll, delivered ex London warehouse.

COAL-TAR PRODUCTS, ETC.—There is little change to report this week; market is quiet but fairly steady. ANILINE OIL continues to be quoted by British makers at 7½d. to 9d. per lb., naked, at works; market dull. ANILINE SALT remains very flat with British makers' prices at 7½d. to 8½d. per lb., naked, at works. BETANAPHTHOL is unchanged on a dull market at 1s. 1d. to 1s. 2d. per lb. TOLUOL: pure, 1s. 8d. to 1s. 10d.; 90's, 1s. 5d. to 1s. 5½d. per gallon; market remains dull. XYLOL: pure, 3s. 3d.; commercial, 2s. 3d. per gallon; market

flat. CREOSOTE OIL shows no improvement in demand with dealers quoting at 5½d. to 5¾d. ex works and 6½d. to 6¾d. per gallon, f.o.b., in bulk packing. CARBOLIC ACID crystals remain dull with f.o.b. offers round about 6½d. per lb., in large bulk packing. CRESYLIC ACID holds steady with 97 to 99 per cent. about 2s. to 2s. 2d. per gallon, according to quantity. NAPHTHALENE shows no further weakening, but the market is still dull; flakes, about £16 per ton. PYRIDINE is being inquired for, and holders' prices are at about 19s. 6d. on a firm market. Pure METHYL ALCOHOL is cheaper with dealers offering in drums at London at about £75 per ton; market quiet. PITCH has been slow all the week with the quotation for next season slightly cheaper at about 53s. 6d. per ton, f.o.b. East Coast.

#### Fixed Oils, etc.

BUSINESS has been quite good in most products and prices are fully maintained, with the market generally firm. ACID OILS.—Prices are fully maintained on a steady market: coconut and palm kernel, 42s.; groundnut, 38s.; soya, 35s. 9d. per cwt., all spot. CASOR.—A slight decline is recorded, with the market firm: pharmaceutical, 76s.; first pressings, 71s.; second pressings, 69s. per cwt., all spot, in not less than one-ton lots. COCONUT.—Further advances are recorded, with the market firm: deodorised, 54s. 6d., spot; Ceylon, 47s. c.i.f.; Cochin, 60s. c.i.f. COTTON.—Prices are maintained, but the market is quiet: deodorised, 54s.; common edible, 52s. 6d.; soapmaking, 49s.; crude, 46s., all spot. GROUNDNUT.—A firm market at full rates: deodorised, spot, 60s.; crude Oriental, 55s. c.i.f. LINSEED (raw, naked).—Prices show an advance for all positions on the week, with the market steady: on spot, 43s. 3d.; September, 42s.; September-December, 42s.; January-April, 40s. 10½d. per cwt. PALM KERNEL.—Prices are again higher with the market firm: deodorised, 50s.; crude, 45s., all spot. PALM is slightly dearer on quotation, with the market firm: Lagos, 39s. 9d.; softs, 39s. 9d.; mediums, 39s. 9d.; hards, 40s. 9d.; bleached, 42s. 6d., all spot. RAPE.—Values unchanged on a firm market: refined is 53s. 6d.; crude, 50s. 6d., all spot. SOYA.—Market is quiet but steady at level rates: deodorised, 52s.; crude, 46s., all spot. TURPENTINE.—Fluctuations have been rather in favour of buyers in this market. Spot closes at 66s. 3d. per cwt.; September-December, 67s. 6d.; January-April, 69s. 9d. Speculative dealings have been extremely restricted and the demand on the spot has been chiefly confined to limited quantities. The fact has to be noted that deliveries for last week amounted to 2,406 barrels making the aggregate to date this year 67,371 barrels, comparing with 64,147 barrels in same period last year. The actual stocks were returned at 31,262 barrels, which compares with only 11,232 barrels a year previous. With the larger quantities afloat, the London visible supply amounts to 38,987 barrels, as against 15,958 barrels a year ago. Additional quantities are apparently being shipped, so that very ample supplies are assured for a good while. WOOD.—Hankow in barrels on spot is again higher at 77s. per cwt.; market quiet.

LUBRICATING, MINERAL, AND BURNING OILS, ETC.—BENZOL, standard motor, has been reduced to 1s. 1½d. to 1s. 3d. per gallon ex works in tank wagons; pure is 1s. 5½d. to 1s. 7d. per gallon. Crude 65's is 7½d. to 9d. per gallon ex works in tank wagon. FUEL OIL.—Market unchanged with business slow: 950 gravity, £4 2s. 6d.; 890 gravity, £5 2s. 6d. per ton, ex tank. PARAFFIN WAX AND SCALE.—Wax is steady on spot, with the market showing a little life: 3½d. to 5d. per lb., according to melting point, in bags. Scale is firm as quoted at about 29s. per cwt., c.i.f. London. SOLVENT NAPHTHAS are rather cheaper, with both 90 to 160 and heavy, 90 to 190, offering at about 1s. 1d. per gallon; market slow. PARAFFIN OILS.—Market is firm at previous rates. American standard white, 1s. 1d.; water white, 1s. 2d. per gallon, barrels free; Russian prime white kerosene, 6½d. to 7d., ex tank; 7½d. buyers' barrels filled free; 10½d. per gallon, barrels free, ex wharf, London. PETROLEUM JELLIES.—Market quiet—quoted values unchanged: white to snow white, £63 to £68; amber and yellow, about £25 to £28; red vet, about £22; dark stiff green, about £19 per ton, barrels free, ex wharf, London. WHITE OILS.—A steady but quiet market: Special No. 1, £40; No. 1, £35; No. 3 half-white, £27; No. 4 half-white, £19 per ton, drums and barrels free, ex wharf, London. LUBRICATING OILS.—Refiners' prices have advanced, but so far spot values have not changed. The market is steadier: on spot, pales, £13 to £26; reds, £14 10s. to £27; dark cylinders, £15 10s. to £35; filtered cylinders, £22 15s. to £36 per ton, less 2½ per cent., ex wharf, London. SOLUBLE OIL, steady, £29 per ton, net. No. 1 RUSSIAN OIL is steady at £18 15s. per ton, less 2½ per cent., ex wharf, London, barrels free.



## Essential Oil Imports

April 1 to June 30, 1924

ESSENTIAL OIL	QUANTITY	SOURCE
Aluond, bitter ..	6 cases	France
" ..	1 case	Belgium
Anise star ..	80 cases	Japan
" ..	423 cases, 5 drums	China
" ..	63 cases	France
" ..	1 drum	Holland
Bay ..	45 cases, 1 cask	B.W.I.
Bergamot ..	10 x $\frac{1}{2}$ cases; 281 cases	Italy
Bois de rose ..	7 cases; 6 drums	France
Bryère d' Annam ..	7 cases	France
Cajuput ..	2 cases	Holland
Cananga ..	2 cases, 3 drums	Java
Caraway ..	4 pkgs.	France
" ..	9 cases	S.C. State
" ..	21 cases	Holland
" ..	2 drums	Germany
Cardamom ..	2 cases	Brit. India
Cassia ..	429 cases	China
" ..	35 cases	Japan
" ..	14 cases	Germany
" ..	5 cases	France
Cauphor ..	4 cases, 3 drums	U.S.
" ..	50 drums	China
" ..	124 drums	Japan
" ..	5 drums	Germany
Cedarleaf ..	1 drum, 1 case	U.S.
Cedar-sandal ..	1 case	U.S.
Cedarwood ..	9 drums	U.S.
" ..	3 cases, 6 packages	France
Cinnamon leaf ..	3 drums, 103 cases	Ceylon
" ..	13 drums	Brit. India
" .. bark ..	5 drums	Seychelles
" ..	13 cases	Ceylon
Citronella ..	5 cases, 63 drums	Java
" ..	25 drums	Brit. India
" ..	117 drums	Ceylon
" ..	2 drums	Holland
" ..	1 drum	Germany
" ..	3 drums	Burmah
Clove ..	7 drums	Brit. India
" ..	7 drums	Germany
" ..	7 cases	France
Clove-leaf ..	2 crates	Brit. India
Copaiba ..	20 cases	U.S.
Coriander ..	2 cases	Hungary
Dill ..	5 cases	U.S.
Eucalyptus ..	32 pkgs., 7 drums,	Victoria
" ..	380 cases	U.S.
" ..	4 drums, 48 cases	Spain
" ..	5 cases	U.S.
Geranium ..	5 drums	Madagascar
" ..	6 cases, 9 casks, 4 pkgs.	France
" ..	32 drums	Brit. India
" ..	1 drum	Réunion
" ..	2 casks	Algeria
" ..	4 drums, 8 cases	Germany
Ginger ..	1 case	"
Guaiacwood and Sandal ..	5 cases	Brit. India
Gingergrass ..	1 pot	France
Jasmin ..	3 cases	Czecho-Slovakia
Juniper berry ..	1 barrel	Germany
" ..	3 cases	Holland
" ..	4 cases	Germany
Larch ..	4 cases	France
Lavender ..	46 pkgs., 1 drum	Italy
Lemon ..	106 x $\frac{1}{2}$ cases, 2,407 cases,	
" ..	11 drums	France
Lemongrass ..	1 cask	Spain
" ..	2 drums	Germany
" ..	1 drum	Brit. India
" ..	30 drums	Brit. India
Lime ..	15 cases	Brit. India
" ..	1 drum, 3 cases	W. Indies
" ..	3 drums	U.S.
" ..	1 case	W. Indies
Linaloe ..	6 drums	Mexico
Mandarin ..	12 cases	Italy
Mimosa ..	4 cases	France
Mint ..	1,050 cases	Japan
Mustard ..	2 cases	Germany
Nutmeg ..	10 cases	U.S.
Orange ..	120 cases	Italy
" ..	7 cases	West Indies
" ..	16 cases, 7 drums	U.S.
" ..	2 cases	France
" ..	1 cask, 9 cases	W. Australia
Origanum ..	1 case	Greece
" ..	1 case, 9 pkgs	France
Palmarosa ..	10 pots, 11 cases	Brit. India
Patchouli ..	1 case	France
" ..	21 cases	Brit. India
" ..	1 case	Ceylon
" ..	6 cases	Seychelles
" ..	17 cases	U.S.
" ..	4 drums, 73 cases	Straits

ESSENTIAL OIL	QUANTITY	SOURCE
Peppermint ..	1 case	Holland
" ..	1 drum	Germany
" ..	9 pkgs.	Czecho-Slovakia
" ..	313 cases	U.S.
Pennyroyal ..	1 case	France
Petitgrain ..	65 cases, 12 casks	Paraguay
Plue ..	3 barrels	U.S.
" ..	4 cases	Germany
" ..	1 case	Czecho-Slovakia
Rose ..	2 drums	France
" ..	2 cases	Anatolia
" ..	2 pkgs.	Switzerland
Rosemary ..	6 drums	Spain
Sandalwood ..	471 cases	Brit. India
" ..	91 cases	W. Australia
" ..	9 cases	Germany
" ..	4 cases	Queensland
Sassafras ..	4 cases	Germany
" ..	15 cases	U.S.
" ..	10 cases	France
Spearmint ..	28 cases	U.S.
Spike ..	4 cases, 17 drums	Spain
Sweet birch ..	1 case	U.S.
Thyme ..	3 drums	Spain
" ..	3 cases	"
Thymene ..	7 drums	Brit. India
" ..	8 drums	U.S.
Wormseed ..	23 cases, 4 pkgs.	U.S.
Wormwood ..	2 cases	U.S.
Ylang-ylang ..	7 cases	France

The following are undescribed: France, 54 cases, 14 part-cases, 1 drum, 3 packages; Italy, 59 cases; Germany, 2 cases, 3 drums; Japan, 2 cases; Holland, 1 package; Spain, 3 drums

## Canadian Honey

ONTARIO honey is beginning to meet a ready sale in Great Britain and in Europe at profitable prices. In fact, the export market at the present time is ahead of the local outlet in so far as prices to the producers are concerned. Following up the advantage obtained by the winning of a championship on honey at one of the leading exhibitions in the Old Country last year, the Ontario Co-operative Honey Producers' Association have developed an extensive market for their wares across the Atlantic. Since last December they have shipped over three-quarters of a million pounds to Great Britain, mostly in 60-lb. packages. They have made five shipments, totalling 40,000 lb. to Denmark, 6,000 lb. to Sweden, and have orders from Austria, Portugal and Germany. The 60-lb. package was used almost exclusively for export shipments because most of the honey abroad was purchased for manufacturing purposes. In Britain, only 25 per cent. is sold for direct human consumption. Production of honey in Ontario is now estimated at 10,000,000 lb., and 25,000,000 lb. for the Dominion. Moreover, the output, especially in the Prairie Provinces, is increasing rapidly. Manitoba, for instance, had an output of a little over a million lb. in 1920; last year this had risen to over three million.

## The Opium Question

MR. J. CAMPBELL, representative of India on the Opium Advisory Committee of the League of Nations, writes to the "Times" (September 10) refuting many mis-statements and incorrect inferences in a letter ("Times," August 30) from Mrs. Hamilton Wright, of the United States, dealing with the Government of India's attitude on the opium question. Incidentally, Mrs. Wright stated that China was given ten years to eradicate the opium poppy, and she did it in seven! The estimate, however, of the International Anti-Opium Association, of Peking, which the Opium Advisory Committee of the League of Nations has accepted unanimously as being the most reliable obtainable in present circumstances, places China's present production of opium at about 15,000 tons a year, which Mr. Campbell says is approximately nine-tenths of the total world's production. The effects of this enormous production in China and of the rapidly expanding—and uncontrolled—exports from Persia on the opium situation in the Far East (concludes Mr. Campbell) are sufficiently obvious. We may recall that it was in 1906 that China "determined to give up opium," and in 1907 a bargain was made with Great Britain whereby China agreed to diminish poppy cultivation year by year for a period of ten years, and Great Britain agreeing to a proportional decrease in the imports of Indian opium. Both countries lived up to their bargain until 1917, but since that date the ruse to cut off Indian opium, while leaving China's opium alone in the field, has succeeded only too well.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

### The Profit Squeeze—and Other Aspects

SIR.—It is rather amusing to observe the way in which "Opus" and "Xrayser II" evade the real point of the discussion. Let me ask this question: why does a proprietor put his article on the P.A.T.A. and offer it to the trade on the terms approved by that organisation? Obviously he does this because he is assured that he can thus obtain fair play for his article, and though, of course, there is no legal contract, surely there is an honourable understanding to this effect. Otherwise there would be no real reason why any proprietor should tie his hands as to price and conditions of sale. If an article is not on the P.A.T.A., the proprietor is told by the trade that he cannot expect them to stock his goods until it is; and if as a result of this persuasion he is induced to go on, he is entitled to expect it shall make some sort of difference in his favour. "Xrayser II" says the proprietor goes on the P.A.T.A. "to obtain a better market for himself." Precisely! Then it is clear that this expectation was held out to him; and if he fails to receive fair treatment from the chemist he is being denied the very thing that was held out as an inducement. The statement that competition and substitution are synonymous does not happen to be true, however plausible it sounds. It may be hard to define where one ends and the other begins, but everyone recognises that there is a very real difference. Mr. "Denby Day" still maintains "that fair substitution is honest competition"; but this, of course, begs the whole question at issue, because it all depends on what is meant by "fair" substitution. No one denies that if a chemist has a neuralgia remedy of his own he is perfectly entitled to show it and explain its virtues, whatever advertising may be done for competing articles. What one does claim is that if a customer has been sent into the chemist's establishment by the "Purple Liquid" advertising and explicitly asks for it, he shall be cheerfully supplied, and that no unfair attempt shall be made to divert the sale to something else. Mr. Day admits my whole point when he says: "If the sale (of the substituted article) was captured through disparaging remarks it is not fair substitution." I do not think I can do better than leave it there, with Mr. Day's tacit admission that, in some cases at least, the tactics I condemn are resorted to and defended as competition.

I am, etc.,

COMMONSENSE (10/9).

SIR.—I have for some time read with interest the letters published in the *C. & D.* regarding profits on proprietaries, and have followed closely the different spasms of calculation which a few months ago worked down to fractions. The final result of all the figures seems to be *nil*. Some of the manufacturers have the goodness to recognise that the man who distributes his goods to the consumer has a right to absorb a bit for himself, and have regulated wholesale and retail prices accordingly. Unfortunately, the majority do not (or will not) see this point of view. Others give a good margin provided a parcel of the value of £5 or more is purchased direct. I write from the point of view of chemists in the same position as myself who cannot buy very many such parcels, but without infinitesimal calculations want to receive a living profit. Why, then, does not the manufacturer of a largely advertised proprietary, the wholesale price of which is 12s. 6d. per doz. and retail 1s. 3d., just try the experiment of making the wholesale 12s. and advertise the retail at 1s. 6d. per item? That is the profit we want, and what we should have, call it by any percentage name. We retailers should have fourpence in the shilling on small purchases, and the manufacturer would have our goodwill, and there would, to my mind, be very little substitution, if any. We should join hands and decline to stock any article which refuses

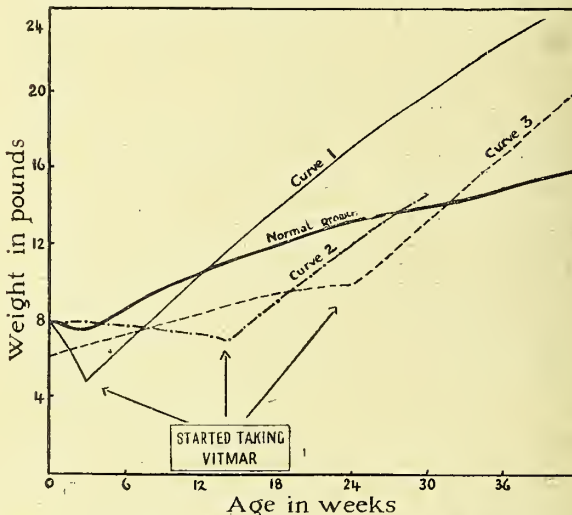
the above-mentioned profit; but, unfortunately, Mr. X. stocks such articles because Mr. Y., down the street, does. The result is both Mr. X. and Mr. Y. struggle alone, while the manufacturer in a few years becomes a millionaire.

Yours faithfully,

M.P.S.I. (9/9).

### Growth Factors

SIR.—The second article on "Factors of Life" in your last week's issue (p. 366) has brought out certain points in which we, as the manufacturers of a vitamin food, are very interested, and we shall be glad if you can let us have a little space to explain these. You clearly establish the fact that vitamins *per se* are not the only factors controlling nutrition and growth. Breast milk or new milk is still considered to be the ideal nutrient



fluid for infant-feeding, but, in our experience, this frequently fails in cases where every effort has been taken to provide adequate nutriment for the growing baby. The growth charts herewith, we trust, are of sufficient interest to reproduce, because they are involuntary growth experiments on young children. Curve 1 is an example in which the baby is the daughter of a trained nurse, who writes that she was in no way "neglected." Yet, in the first three weeks after birth, the infant lost weight so rapidly that she would have died unless the milk diet had been enriched and made into a really complete food. The immediate improvement demonstrates that it was a case of deficient dietary. The case illustrated in curve 2 is one of a little boy who "was unable to digest any food." In this instance photographs are available, which we enclose; and these show more picturesquely the effect of inadequate nutrition. The first photograph is of the baby, as admitted to a hostel, and the second photograph exactly three months later. These show, even better than the weight charts, the effect of a food adjuvant which ensures that all the growth factors are present in the daily diet. Curve No. 3 is an example of an inability to find a suitable food. In this instance the mother reports:—



Baby, on March 7, aged 3½ months, showing spasm due to avitaminosis

"Many of the well-known patent foods were tried, but of no use, and our doctor then recommended the use of Vitmar. Candidly, I had no faith in it after the other foods. From that date he has never looked back, steadily gaining 1 lb. a week at first, until at 11 months he weighed 22 lb., with also twelve teeth, and we have never had any more trouble with him."



That quality, not quantity, is the all-vital factor in quick recovery is obvious from the fact that the vitamin cream, Vitmar, added is only about 5 per cent. of the nutrient fluid. It will be seen in each case that the child exceeded normal growth, from which it can be inferred that normal foods are not the best or so-called ideal nutrients. Furthermore, the delay in attaining full weight corresponds to that in making the diet adequate in all respects. Unfortunately, vitamin starvation is not obvious in its early stages, and the information in your articles on how to detect this in its early stages will help to prevent examples of malnutrition so pitiable that they would not bear reproduction. These are met with almost as frequently in the cases of children whose parents can afford to pay for the best possible food and attention, as in cases where poverty precludes the purchase of adequate nourishment. The whole problem of vitamin therapy would appear to be bound up with such conservation of growth factors in their natural environ-



Baby, on July 8, aged 6½ months, restored to normal by Vitmar.

ment, along with Nature's stores of proteins and fats. Not only malnutrition, but actual disease, such as tuberculosis, tends to become more a question of dietetics than of medicine, though vitamin foods can only help to build up body resistance in its fight against the invading tubercle bacillus. It may interest your readers to note that it is a pharmacist who wrote to us that his brother-in-law was

"A case given up by his doctor as incurable. His digestion was so bad that he could keep nothing down. The wonderful thing that to-day he is still alive and has been practically fed on Vitmar. . . . These points are very interesting to me, since we can sell a thing very easily when one has every confidence in it. I might say my three children have it every day. I am sure you notice the power of vitamins in children between four and five. Mine don't fall away like many children of that age."

We might add that the composition of Vitmar is freely disclosed to chemists and the medical profession, so that it is free from the stigma attached to a secret remedy.

Yours faithfully,

VITMAR, LTD. (Callard's Vitamin Foods),  
Frederick James (Managing Director).

London, W.1.

SIR,—In reference to your article, "Factors of Life," is it not possible that in the advance of the science of dietetics we are likely to fall between two stools? For instance, vitamin B is stated to be found in fresh vegetables, but this is usually thrown away in the cooking water; yet, on the other side, we are frequently warned not to eat uncooked greenstuff, for fear of such things as typhoid. It leaves the ordinary mind in a rather ambiguous position; what, then, are we to do—to cook or not to cook? Let us hope that the scientists will arrive at a point where they can give us definite information on the vexed question of what to eat, so that we may not be vitamin starved through want of nutrition or poisoned by germs through lack of sterilisation.

I am, etc.,  
VITAMOID (2/9).

## Legal Queries

*Superintendent.*—You have not made it clear to us whether the doctor or the patient pays for the medicines dispensed.

*H. G. & Co. (9/9).*—It is not necessary to make the disclosure anywhere else than on the bottle, box, or other packet actually containing the approved medicine.

*D. M. T. (15/8).*—If you make the eczema ointment into a "known, admitted and approved" remedy by making the formula public in a standard work of reference, you, as a chemist, can sell it without having to pay medicine duty. You will not, however, be able to claim proprietary rights, and the reference number must be stated on the label. Further details are given on p. 240 of *The Chemist and Druggist Diary*, 1924.

*Worried (3/9)* has received from his local inspector of taxes a notice asking for trading accounts for the years 1921-22-23. He wants to know the meaning of this, and whether he can be compelled to furnish these accounts, as it has not been his practice to keep regular accounts, and his income-tax return merely contained a stated estimate of his weekly profit. [The only obligation on a taxpayer in this way is to make a correct return of his income on the official form, when called upon to do so. It is not, however, wise to refuse accounts where they are available, because the inspector may make an assessment, back to 1921 if necessary, and if "Worried" appeals against this he will only succeed if he produces to the Commissioners at the appeal accounts which show that the assessment is not justified. If there are no accounts for these years, they might be got out from the bank pass-book by making the adjustments necessary in respect of items which are deductible from trading profits and items which have to be added to profits for income-tax purposes.]

## Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

### Hints to Intending Applicants

It is really pitiful to see some of the efforts made by people who think they are worth money. The following hints may be useful to prospective applicants for situations: (1) Don't apply as if you were writing an advertisement for an evening paper—e.g., "Re ad. in C. & D. Highest refs. Yrs. fly." (2) Don't use your present employer's memorandum forms. (3) Don't use a scrap of paper to write your application—note-paper is cheap. (4) Don't boast of your "intimate knowledge of all drugs." (5) Don't say you can "read english and continental prescriptions," when you don't even spell English with a capital letter.—*Checker (3/9).*

### What is Lysol?

*Lysol, Ltd.*, referring to recent correspondence on this subject, write: It is a question purely concerning the protection of the public. Lysol since its invention has always had a definite standard well known to all pharmacists, as being a preparation containing at least 50 per cent. cresylic acid. Practically the whole of its bactericidal power lies in this. These so-called lysols, containing less than 3 per cent., are a mere travesty of the genuine article, and, having hardly any value as an antiseptic and bactericide, mislead the public into thinking they are buying something which has.

### The Finance Act, 1924

Under Section 26 of the Finance Act, 1924, receipts given in respect of salaries, wages, pensions, etc., are exempt from stamp duty. Public officials (e.g., dispensers under various public bodies) are therefore now freed from the necessity of stamping salary receipts.—*G. W. G. (3/9).*

In your interesting notice of the changes in this Act, you omit to mention that in addition to the allowance granted in future to widowers or widows for any housekeeper employed by them to look after children, the allowance will be made to any female person [the definition is rather more complicated than "any female person"—*EDITOR*] employed as housekeeper, regardless of whether she has the care of his or her children.—*Observer (20/8).*



## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

A. P. (30/7).—(1) VANILLA ESSENCE.—Bouquet is given to a culinary essence made with vanilla and artificial vanillin by the addition of tonquin bean (one bean in 10 oz.). Other recipes we have contain a little cinnamon, "wine distillate," raisin tincture (also added to obtain colour), and in a formula for vanillin essence a little heliotropin figures. The maceration with boiling water should be in a corked flask, or much loss of odour will occur. (2) CHOCOLATE ESSENCE.—Chocolate is employed as the basis of this, but Walter's "Manual for the Essence Industry" states that the roasted and ground cocoa beans are preferable. The formula recommended is:—

Cocoa beans ... ..	5 lb.
Alcohol ... ..	7½ lb.
Water ... ..	7½ lb.

Percolate for three days, using sufficient water subsequently to yield 20 lb. of percolate. To this add:—

Cinnamon tincture ... ..	1 oz.
Spirit or arrack ... ..	2 lb.

This is further employed as a medium for percolating cocoa beans 5 lb., to produce 20 lb. of liquid. Then add vanillin 3 dr.

(3) We suggest that dried egg albumen might be tried for the glaze mixture, but experiments would be needed to test its suitability.

S. & Co. (2/8).—THE TELL-TALE DYE used for detecting persons using door-handles is aniline violet. The dye is lightly powdered on to handles that are likely to be touched by the unauthorised person. It dyes the hands of the person violet, and is difficult to remove.

J. F. (4/8).—STOCKTAKING SYSTEM.—The C. & D. system of stocktaking is explained in the instructions given with the C. & D. Stocktaking Sheets (2s. 6d. the pad). The sheets give the names of the drugs, chemicals, and preparations enumerated in the C. & D. Price List, with space for pricing out. The latter is done by means of the C. & D. Price List. An explanation is given on p. 246 of *The Chemist and Druggist Diary*, 1924.

F. M. H. (5/8).—We should not be surprised to find that colour changes are produced in the hair after using a lotion containing resorcin, betanaphthol and ammonia. You do not state what colour is produced. As a rule it is only when green or blue colours are obtained that customers object.

W. W. (6/8).—SPHYGMOGRAPHIC VARNISH.—We have no formula for this, but are told it is made on the same lines as tr. benz. co., but without the storax and aloes.

D. M. (8/8).—UNG. RESINÆ CO., B.P.C.—The trouble you experience with this ointment is that which affects all ointments containing hard paraffin mixed with soft paraffin. These ointments should always be stirred until quite cold, otherwise there is a separation of hard paraffin. We have never found that the resin separates, and cannot see any reason why it should.

W. M. N. (9/8).—FACE CREAM.—The following is a good formula for face cream which is not intended "to grow hair or to be disagreeable or dangerous":—

Purified stearic acid ... ..	170 grams
Pure glycerin ... ..	700 grams
Ammonium sesquicarbonate (non-efflorescent) ... ..	36.2 grams
Distilled water ... ..	120 grams

Mix the stearic acid and glycerin and 80 grams of the water and warm on a water-bath. When the stearic acid has dissolved stir well and add gradually the ammonium sesquicarbonate previously dissolved in 40 grams of water. Keep the mixture warm until a neutral solution results as tested by phenolphthalein. Then allow to cool and beat in a mortar after adding the perfume required. Examples of the perfume required were given in the C. & D., August 23, p. 324.

A. W. (12/8).—STANDARD FILM DEVELOPER.—The following is the formula recommended by Houghtons Ltd., for quantity development of photographic films:—

Pyrogalllic acid ... ..	12 oz.
Sodium sulphite (cryst.) ... ..	7½ lb.
Potassium metasilphite ... ..	15 oz.
Sodium carbonate (cryst.) ... ..	3 lb.
Potassium iodide ... ..	50 gr.
Water to ... ..	10½ galls.

The developer is made up as follows:—Dissolve the sulphite in two gallons of hot, but not boiling, water. When dissolved add the metasilphite, and then boil for five minutes. Cool down to about 70° F. and add the pyrogalllic acid. Dissolve the sodium carbonate in one gallon of warm water, then add the iodide. Pour these two solutions into the tank, and then fill up with water to the top as usual. The most satisfactory temperature for developing is 65° F., and it should not be used below 60°. When the developer is first made up, the time of development at 65° is about eighteen minutes. After the developer has been used for two batches, it will be necessary to strengthen it with every batch. The strengthening solution is made as follows:—

Pyrogalllic acid ... ..	½ oz.
Sodium sulphite (cryst.) ... ..	5 oz.
Potassium metasilphite ... ..	5 dr.
Sodium carbonate (cryst.) ... ..	15 oz.
Potassium iodide ... ..	8 gr.
Water to ... ..	120 oz.

T. L. B. (12/8).—HEALTH SALINE.—Effervescing powders or granules in the manufacture of which an organic acid and carbonate are employed react in the course of time unless prepared and packed under ideal conditions of dryness and freedom from contact with the air. As citric acid is more hygroscopic than tartaric acid, it would suit your requirements to employ only tartaric acid instead of the usual mixture with citric acid. The following formula gives a salt that keeps well owing to the presence of dried Epsom salts, which has a tendency to counteract absorption of moisture:—

Sodium bicarbonate ... ..	1 lb.
Tartaric acid ... ..	1 lb.
Cream of tartar ... ..	1 lb.
Dried magnesium sulphate ... ..	½ lb.
Sugar ... ..	3 lb.

The disadvantage of this formula is that the salt is not so readily soluble as mixtures of organic acids and alkali.

## Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," September 15, 1874

### Invention of Chlorodyne

[From a biography of Mr. J. T. Davenport.]

Chlorodyne was a compound invented by Dr. J. Collis Browne, a surgeon in the Indian Army, who brought it to England in the year 1856. We have heard it stated (it is only a rumour, and we do not guarantee its truth) that Dr. Browne offered his formula at that time and all interests in its sale for a hundred pounds. However this may be, Mr. Davenport declined to purchase until he had satisfied himself of the value of the medicine, and we believe that ultimately an arrangement was come to which left to Dr. Browne a share in the profits. Mr. Davenport induced some surgeons to test the new medicine in several hospitals, and the results were so satisfactory that it was soon prominently introduced first to the profession and then to the public. There is no doubt about the value of this medicine. It has forced itself into the prescriptions of men who, as a matter of etiquette and principle, hate secret remedies. It has found its way all over the earth, and even in such countries as Germany, Russia, Norway, etc., where the patent medicine trade is comparatively unknown or forbidden, Collis Browne's chlorodyne is an almost invariable article of stock. This great success is due mainly, no doubt, to its merits, but also to some extent to the simple and straightforward manner in which it has been placed before the profession. It has been advertised, perhaps, in every printed language on earth, but there has never been anything like claptrap or misrepresentation employed to aid its sale. Everyone must acknowledge that Mr. Davenport has set a bright and honourable example to those who would venture on the slippery paths of patent medicine working.



THE CHEMIST AND DRUGGIST

# COMMERCIAL COMPENDIUM

deals with the trade side of pharmacy

[Commenced C. & D., July 5, 1924]

**American (South) Drugs.**—The following is a list of South American (non-pharmacopœial) drugs:—

Name and Botanical Origin	Part used	Properties
Alligator pear ( <i>Persea gratissima</i> )	Seeds	Antineuralgic, anthelmintic
Alveloz ( <i>Euphorbia heterodoxa</i> )	Milky juice	Irritant
Anhalonium ( <i>Anhalonium Lewinii</i> )	Plant	Cardiac tonic
Avocado (see Alligator pear)		
Boldo ( <i>Peumus boldo</i> )	Leaves	Tonic
Canelalagua ( <i>Erythraea chilensis</i> )	Herb	Bitter
Canella ( <i>Canella alba</i> )	Bark	Aromatic stimulant
Carob ( <i>Jacaranda procera</i> )	Leaves	Antisiphilitic
Cascara amarga ( <i>Picranea vellozii</i> )	Bark	Bitter tonic
Cereus ( <i>Cereus grandiflora</i> )	Stems	Cardiac sedative
Chekan ( <i>Eugenia Chequen</i> )	Leaves	Expectorant
Coccollana ( <i>Guarea Rusbyi</i> )	Bark	Expectorant, emetic
Condurango ( <i>Gonolobus condurango</i> )	Bark	Gastric sedative
Coto (Paracoto bark = <i>Nectandra coto</i> )	Bark	Astringent
Damiana ( <i>Turnera diffusa</i> var. <i>aphrodisiaca</i> )	Leaves	Aphrodisiac, diuretic
Guarana ( <i>Paullinia sorbilis</i> )	Seeds	Nerve tonic
<i>Jatropha macrorhiza</i>	Root	Cholagogue
Lippia Mexicana ( <i>Lippia dulcis</i> )	Leaves	Demulcent expectorant
Logwood ( <i>Hamatoxylon campechianum</i> )	Wood	Astringent
Manaca ( <i>Brunfelsia Hopeana</i> )	Root	Purgative
Mate (see Paraguay tea)		
Matico ( <i>Piper angustifolium</i> )	Leaves	Astringent, diuretic
Mescal buttons (see Anhalonium)		
Monsonia ( <i>Monsonia ovata</i> )	Plant	Astringent in dysentery
Muira puama ( <i>Liriosma ovata</i> )	Root	Aphrodisiac
Night blooming cereus (see Cereus)		
Paraguay tea ( <i>Ilex paraguayensis</i> )	Leaves	Stimulant, diuretic
Parreira ( <i>Chondrodendron tomentosum</i> )	Root	Tonic, diuretic
Pichi ( <i>Fabiana imbricata</i> )	Leaves	Diuretic
Pleurisy root ( <i>Asclepias tuberosa</i> )	Root	Diaphoretic
Quassia, Colombian ( <i>Quassia amara</i> )	Wood	Bitter tonic
Quebracho ( <i>Aspidosperma quebracho blanco</i> )	Bark	Antiasthmatic
Rhatany ( <i>Krameria triandra K. argentea</i> )	Root	Astringent
Sabadilla ( <i>Schanocaulon officinale</i> )	Seeds	Irritant
Simaruba ( <i>Simaruba officinalis</i> )	Root bark	Tonic
Soap bark (= Quillaia)		

**Ambulance Books.**—The following is a selection of modern books on ambulance work: "First Aid to the Injured and Sick," by F. J. Warwick and A. C. Tunstall (1921, J. Wright & Sons, Ltd., 5s.); "First Aid to the Injured," by Sir James Cantlie (1920, St. John Ambulance Association, 2s.); "Problems in First Aid," by L. M. F. Christian and W. R. Edwards (1920, St. John Ambulance Association, 10d.); "Elementary Bandaging and Surgical Dressing," by W. Pye (1919, J. Wright & Sons, Ltd., 3s. 6d.); "Why and Wherefore in First Aid," by N. C. Fletcher (1923, Bale, Sons & Danielsson, Ltd., 1s.); "First Aid Manual No. 1," by Sir James Cantlie (British Red Cross Society, 2s.).

**Ambulance Classes.**—The formation of ambulance classes can be carried out under the auspices of the St. John Ambulance Association (founded in 1877) at a moderate cost. If there is a centre of the Association in existence in the town or district, application for

particulars should be made to the local secretary; if there is no such centre, details are obtainable from the Chief Secretary of the Association, St. John's Gate, Clerkenwell, London, E.C.1. A "class" consists of not more than thirty of one sex. The minimum charges per course are estimated by the Association at about £8 10s., plus lecturer's and examiner's travelling expenses; this sum, divided by the number of members, works out at a nominal fee for instruction. A "course" consists normally of five lectures, with an interval of not less than a week between each. The British Red Cross Society, 19 Berkeley Street, London, W.1, also organises courses of instruction in first-aid. Candidates for examination must not be less than seventeen years of age, and the Society's syllabus and text-book must be used. Certificates and proficiency badges are awarded according to merit. The syllabus is obtainable from the Secretary of the Society, to whom, in the first instance, application must be made for the formation of local classes.

**Ambulance Cases.**—First-aid outfits vary somewhat according to the demands likely to be made on them, but invariably contain adhesive plaster, an assortment of bandages, boric lint, wool, safety pins, scissors, tincture of iodine and sal volatile. This list may be extended to include such of the following as may be deemed necessary: Ammonia for bites, boric ointment, castor oil, colloidion, friars' balsam, lysol, tincture of arnica, needles and thread, forceps, sponges, splints, eye-shades, finger stalls, measure, camel-hair brush, gauzes, court plaster, tourniquet, triangular bandages and wound pads (See First-aid).

**Ammonia.**—Solution of ammonia (liq. ammoniæ), generally called "ammonia," when it contains more than 5 per cent. by weight of the gas, is a "poisonous" substance within the meaning of Section 5 of the Poisons and Pharmacy Act, 1908, and may only be sold under the conditions specified in the Orders in Council (Great Britain and Ireland). The official preparations which are "poisonous" are: Liq. ammon. fort., liq. ammoniæ, and liq. camph. ammon. The sale of ammonia and its preparations is not confined to chemists and druggists, who must carry out the regulations equally with other vendors. (See Poisonous Substances.)

**Ammonia, Anhydrous.**—This is of 99.95 per cent. strength. It is packed in cylinders of 50, 100 and 150 lb. weight, and is used in cold storage works. Railway specifications for carriage are very stringent and complicated, and refer to valves, thickness of cylinders, capacity and pressure.

**Ammonia, Carriage.**—The conveyance by rail of ammonia solution or liquor ammon. fort. is governed by special regulations and is carried at "owner's risk" only. It may be sent in glass carboys; in bottles carefully and securely packed in cases, casks or hampers, which must not contain acids or bromine; in stoneware jars, wicker covered. *Rate:* Under two tons, double fourth class rate S to S.; minimum charge 7s. 6d. per consignment, in iron drums not exceeding 100 gallons in capacity, capable of withstanding a pressure of 66 lb. per sq. in. without leakage, and filled to not more than nine-tenths of their capacity. *Rate:* Fourth class, collected and delivered. There are special directions as to packing, stoppering, luting and loading, etc., of carboys. The term "carboy" means a globular bottle of not more than 12 gallons capacity (for liquids not exceeding 1.2 sp. gr. carboys up to 14 gallons capacity may be used) made of glass, not less than about  $\frac{1}{4}$  inch thick in any part, practically free from striæ and bubbles, carefully annealed, and with the initials of the maker or other distinguishing mark on the neck. The carboy must be firmly packed in a hamper of iron or wickerwork, with a minimum thickness of  $\frac{1}{2}$  inch of straw packing between the hamper and the carboy. This applies to carboys in full truck-loads, but in the case of single carboys or part loads, the carboys and hampers must be packed in substantial flat-bottomed boxes, crates or tubs. Each package must bear a distinctive label close to the mouth of the carboy: "This side up" (See Carboy). The services of loading



# The C.&D. Commercial Compendium

and unloading must be performed by the senders and consignees, unless otherwise provided. Ammonia must not be loaded in the same wagon with foodstuffs or empties which have contained foodstuffs, nor with any goods liable to be damaged in the event of the escape of the contents.

**Ammonia, Industrial Uses.**—Liquefied ammonia gas is largely used as a refrigerant in cold storage plants, but the chief use of ammonia is as a fertiliser (ammonium sulphate) and in manufacture of explosives (ammonium nitrate). The synthetic production of ammonia from atmospheric nitrogen and hydrogen (a plant opened in this country in 1923) has become a large industry, giving much purer ammonia than is obtained from ammoniacal liquors of the gasworks. The liquor ammonia (s.g. 0.880) is made by saturating water with ammonia gas. This is used in pharmacy for making liniments, and was at one time used in the formula for liquor ammon. acet. Ammonia solution is often employed to neutralise fluid extracts to prevent undue deposition.

**Ammonia Poisoning.**—Avoid the use of the stomach pump. Give plenty of dilute acids to drink, such as lemon juice and vinegar, diluted with water. Demulcent drinks, such as arrowroot or plain olive oil, are then given to ease the pain. Continued treatment for the purpose of warding off shock consists of the use of morphine injection (5 to 10m.).

**Ammonia, Specific Gravity of Solutions.**—The following table gives the percentage of ammonia gas and also the grams per litre of ammonia gas in solutions of ammonia arranged in alignment with its specific gravity according to the determinations made by Lunge & Wiernik:—

Sp. Gr.	Per cent. of NH <sub>3</sub>	Grams NH <sub>3</sub> at 15° in 1 litre	Cor-rection for ±1° C.	Sp. Gr.	Per cent. of NH <sub>3</sub>	Grams NH <sub>3</sub> at 15° in 1 litre	Cor-rection for ±1° C.
0.900	0.00	0.0	.00018	0.940	15.63	146.9	.00039
0.998	0.45	4.5	.00018	0.938	16.22	152.1	.00040
0.996	0.19	9.1	.00019	0.936	16.82	157.4	.00041
0.994	1.37	13.6	.00019	0.934	17.42	162.7	.00041
0.992	1.84	18.2	.00020	0.932	18.03	168.1	.00042
				0.930	18.64	173.4	.00042
0.990	2.31	22.9	.00020	0.928	19.25	178.6	.00043
0.988	2.80	27.7	.00021	0.926	19.87	184.2	.00044
0.986	3.30	32.5	.00021	0.924	20.49	189.3	.00045
0.984	3.80	37.4	.00022	0.922	21.12	194.7	.00046
0.982	4.30	42.2	.00022				
				0.920	21.75	200.1	.00047
0.980	4.80	47.0	.00023	0.918	22.39	205.6	.00048
0.978	5.30	51.8	.00023	0.916	23.03	210.9	.00049
0.976	5.80	56.6	.00024	0.914	23.68	216.3	.00050
0.974	6.30	61.4	.00024	0.912	24.33	221.9	.00051
0.972	6.80	66.1	.00025				
				0.910	24.99	227.4	.00052
0.970	7.31	70.9	.00025	0.908	25.65	232.9	.00053
0.968	7.82	75.7	.00026	0.906	26.31	238.3	.00054
0.966	8.33	80.5	.00026	0.904	26.98	243.9	.00055
0.964	8.84	85.2	.00027	0.902	27.65	249.4	.00056
0.962	9.35	89.9	.00028				
				0.900	28.33	255.0	.00057
0.960	9.91	95.1	.00029	0.898	29.01	260.5	.00058
0.958	10.47	100.3	.00030	0.896	29.69	266.0	.00059
0.956	11.03	105.4	.00031	0.894	30.37	271.5	.00060
0.954	11.60	110.7	.00032	0.892	31.05	277.0	.00060
0.952	12.17	115.9	.00033				
				0.890	31.75	282.6	.00061
0.950	12.74	121.0	.00034	0.888	32.50	288.6	.00062
0.948	13.31	126.2	.00035	0.886	33.25	294.6	.00063
0.946	13.88	131.3	.00036	0.884	34.10	301.4	.00064
0.944	14.46	136.5	.00037	0.882	34.95	308.3	.00065
0.942	15.04	141.7	.00038				

**Ammoniacum.**—Gum-resin resulting from punctures by beetles of the stems of *Dorema Ammoniacum*, a perennial plant distributed throughout Persia. The beetles visit the fruiting plants, and the milky secretion flowing out of the punctures usually hardens on the stem and constitutes the "tear ammoniacum." "Lump" ammoniacum is formed by the concretion falling to the ground and becoming mixed with "dirt" consisting of vegetable debris (such as the flat pericarps of the fruit) and stones on the ground

near the base of the plants. The "tears" alone are official, these being hard and brittle, of a pale yellow colour which darkens by keeping. As offered for sale, good quality consists of tears varying from pea-size to a walnut, with a small proportion of "blocky" or agglutinated tears. Ammoniacum contains from 65 to 70 per cent. of resin, and 1 to 2 per cent. of volatile oil, the remainder being nearly all gum. The drug is chiefly collected in Central Persia, and is mostly exported from Bombay and Karachi. It is usually offered for sale in London in cases and bags of about 1½ cwt. The demand is now declining, having become small and intermittent. The chief use of ammoniacum is as an ingredient of emp. ammoniaci c. hydrarg., which was official in the British Pharmacopœia, 1898.

**Ammoniated Mercury** or white precipitate and its preparations are named in Part II of the Poisons Schedule of the Poisons and Pharmacy Act, 1908, and sales are subject to the conditions governing this part of the Act. (See Poisons Sale.)

**Ammoniated Mercury Poisoning.**—The antidote is albumen (white of egg) in water, which is removed by the stomach pump. Then administer arrowroot and barley water, followed by stimulants. (See Mercury Perchloride.)

**Ammonium Chloride** of commercial quality is known as muriate of ammonia and sal ammoniac. There are various grades—grey galvanising, dog-tooth, medium and fine white crystals. It is packed in wooden barrels of from 2 to 8 cwt. The chief uses are in galvanising, for electric batteries, in the textile industry, for printing purposes, and in soldering flux.

**Ammonium Sulphate.**—Chief commercial use is as a nitrogenous fertiliser. It is produced principally as a by-product from gas-works and coke-ovens, and in the "neutral" quality contains about 25.5 per cent. of ammonia. The price in the British market is fixed by the British Sulphate of Ammonia Federation, which controls about 90 per cent. of the output, and the material is usually delivered in single bags containing about two cwt. The best time to apply the fertiliser to the land is just prior to sowing or planting, and in the early stages of growth, particularly in the case of all root and potato crops, while an average application of two cwt. per acre gives increased yields of cereals, vegetables and fruits. It is useful for stimulating the growth of grass on lawns, and in strong solution is used as a weed-killer.

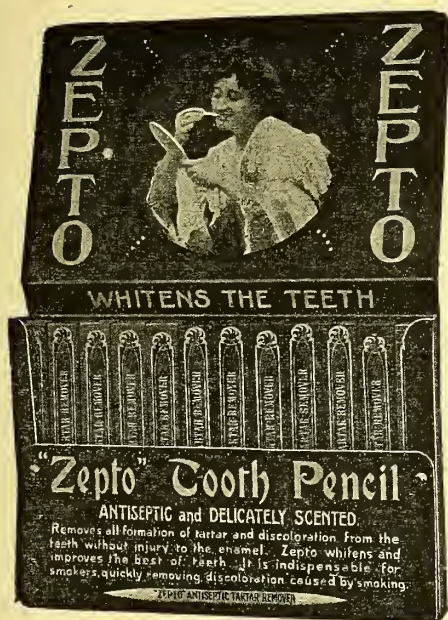
**Ammonium Sulphocyanide.**—In Ireland this substance is treated as a metallic cyanide, and is therefore a poison within Part II of the Irish Poisons Schedule (*C. & D.*, I, 1901, p. 446). In Great Britain it is not a poison within the meaning of the Poisons and Pharmacy Acts, as, although ammonium may be inferentially a metal, it would be difficult to prove that a sulphocyanide is a cyanide.

**Amortisation.**—Method of extinguishing loans by gradual payment, or assets by reason of depreciation, wear and tear or obsolescence, over a specified period of time, whereby certain sums are set apart or amounts written off respectively for the purpose. (See Depreciation, Reserves, Sinking Funds, and Secret Reserves.)

**Amyl Acetate** (C<sub>5</sub>H<sub>11</sub>.CO.CH<sub>3</sub>).—An inflammable liquid sparingly soluble in water, with a strong odour of pear essence. Its chief uses are as a flavouring agent, as a solvent in making varnishes and aeroplane dope, and in the manufacture of smokeless powder.

**Amyl Alcohol**, the commercial form of which is known as "fusel oil," consists of a mixture of amyl alcohols, boiling between 128°-132°C. It finds its chief use as a solvent for resins and oils, and in the manufacture of amyl acetate. Isobutyl carbinol ((CH<sub>3</sub>)<sub>2</sub>CH.CH<sub>2</sub>CH<sub>2</sub>OH), also known as *iso*-amyl alcohol or fermentation amyl alcohol, is the chief constituent of most fusel oils.





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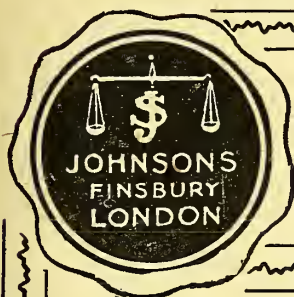
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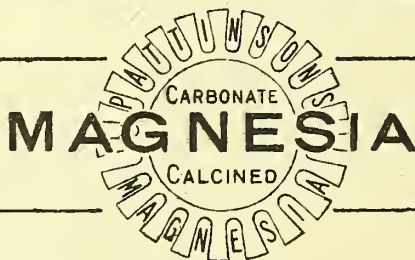
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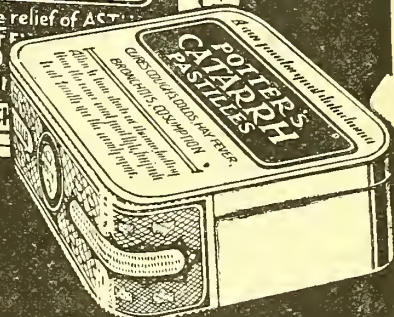
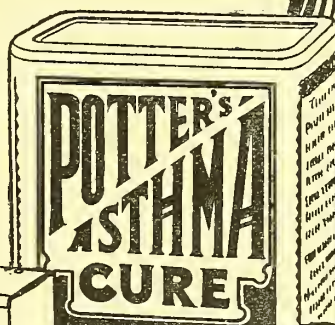
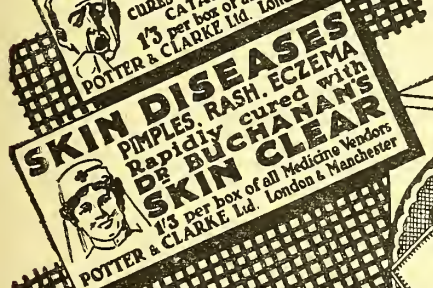
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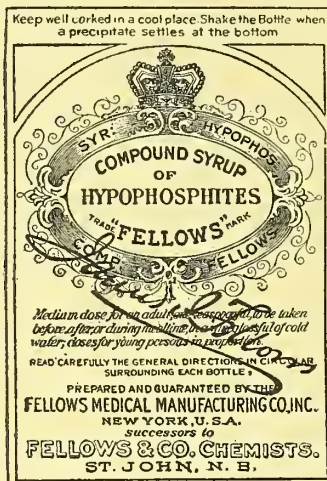
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To any Chemist not stocking this splendid selling line sending us 6d. in stamps to cover cost of carriage, we will forward free of charge 1 dozen 3d. G. O. LEMON SKIN TABLETS in smart show box, with window bill and Special Bonus Offer terms.

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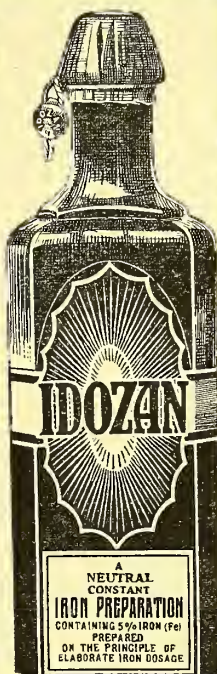
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## In Tablet form for Export only

Manufactured by a special process under the direct supervision of the eminent Professor AUG. KROGH.

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## The "WORLD WIDE" EMBROICATION

THERE 'S NOTHING BETTER ON THE MARKET.

It is tastefully packed in Red Cartons with attractive Label, and is always a good seller.

3 oz. 7/6 doz.

6 oz. 10/6 doz.

Customer's own Name, etc., printed on all Labels and Cartons.

DELIVERIES BY OWN MOTOR SERVICE IN THE  
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Needless to say, articles showing such a low profit are not paying their share towards expenses and probably the stocking or sale of them will not be encouraged.

For many years we have persistently advertised the profit to be made on

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## THE GREAT TONIC

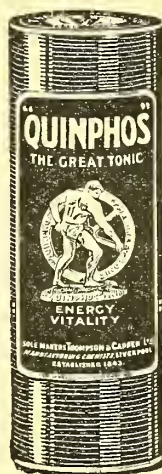
and for many years we have persistently advertised Quinphos in the Press and on the hoardings.

There is no effort required therefore in selling Quinphos, and yet for a small display and a small order we give 36%. Therefore we never mind talking about

## PROFITS ON PROPRIETARIES

This is Bonus order No. 2 :—

<p>The PROFIT is <b>36%</b> on SELLING PRICE and <b>56%</b> ON COST</p>	3 doz.	1/3	"	QUINPHOS"	£	s.	d.	Sells for							
					@	11/6	1	14	6	2	5	0			
	1	„	3/-	„	@	27/6	1	7	6	1	16	0			
	3/4	„	1/3	„	Bonus					11	3				
										£3	2	0	£4	12	3
					5%	1 month				3	2				
										£2	18	10			
	<p><b>Outlay £2.18.10 Profit £1.13.5</b></p>														
	<p><i>Advertising Matter for Window Display included.</i></p>														



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# IRVING'S YEAST-VITE TABLETS

A ready seller at a good profit and an attractive display is the business you want. It means an increased turnover and new customers coming into your shop. Affability and fair dealing will bring them again.

**We will guarantee** Irving's Yeast-Vite tablets to sell equally as well as anything you have ever displayed and better than most things.

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And is sold in Bottles, authenticated by a stamp bearing their name.

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WHOLESALE PRICES.

#### BEECHAM'S PILLS:

1s. 3d. size	...	...	10s. 6d. per doz. net.
3s. 0d. "	...	...	26s. 6d. "
5s. 0d. (new size)	...	...	50s. 0d. "

(contains double the quantity of 3s. box)

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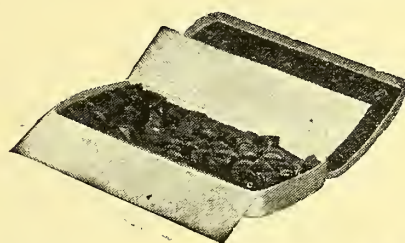
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- You will secure the satisfaction of selling *the* superlative article.

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### CLOUDY AMMONIA

To-day, as ever, the extra strength of

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The enviable reputation  
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Doesn't that mean  
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OF PURITY  
STERNS  
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**PARAFFIN B.P.**

Colourless, Tasteless, Odourless.  
All Specific Gravities.

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JELLIES B.P.**

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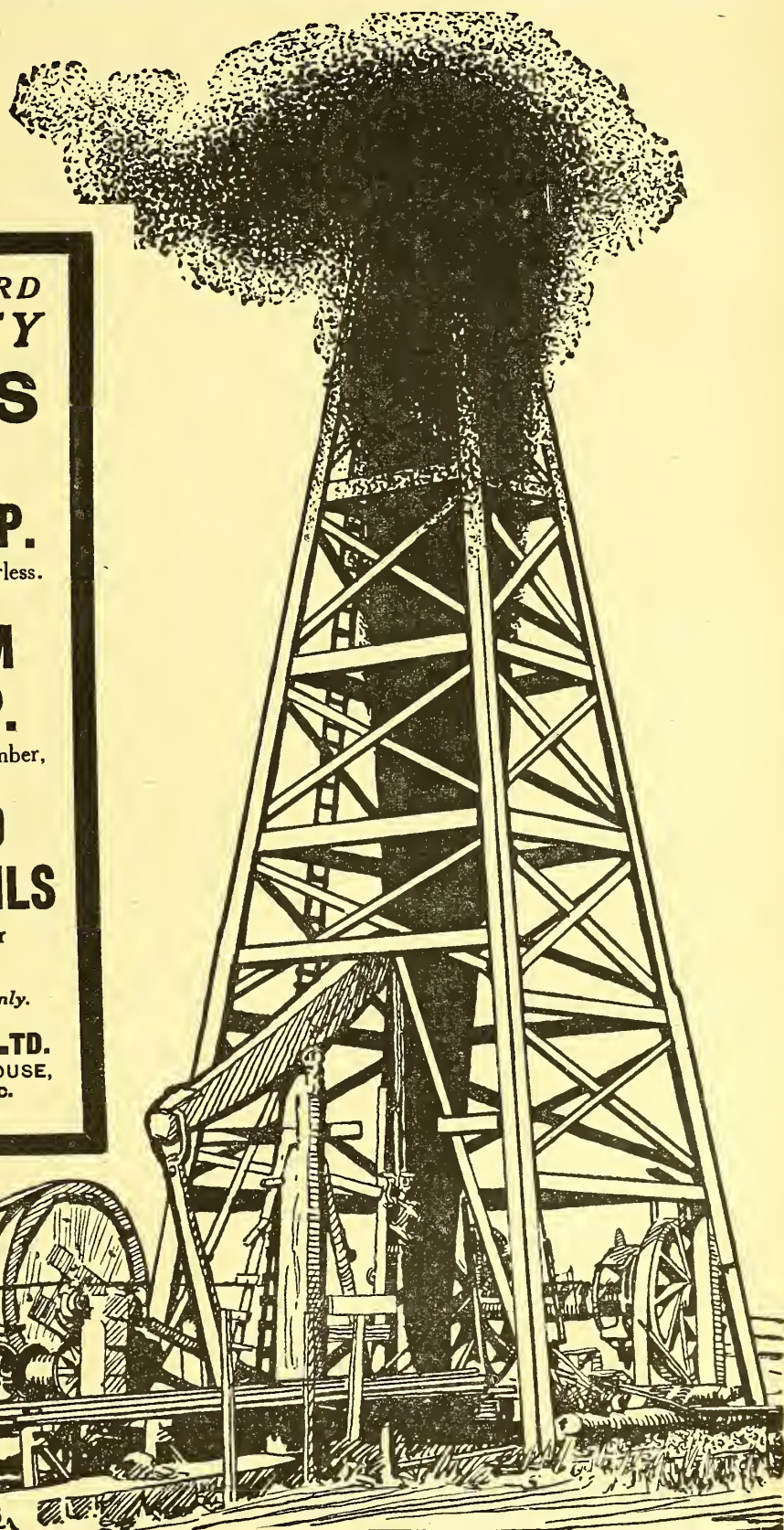
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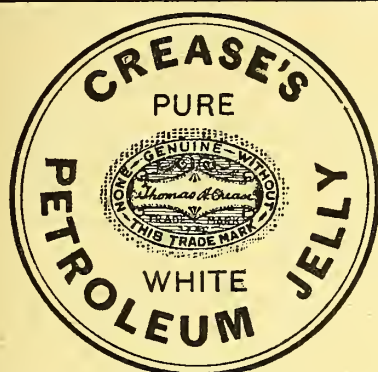
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Its purity renders it the Ideal Cream for Nursery Use.

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# "CANTERBURY BRAND" HOT WATER BOTTLES

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OWN NAME ON  
THREE DOZEN  
BOTTLES OR  
MORE.

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FOR FUTURE  
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Avoid all complaints by selling the Best British Bottle. Faulty returns do not equal one in 1,000, hence we fully guarantee all bottles in respect to both material and workmanship.

## PRICES (Grey).

10 x 6	...	...	...	3/- each
10 x 8	...	...	...	3/6 "
12 x 6	...	...	...	3/3 "
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□  
33½% EXTRA  
FOR  
RED RUBBER.

—  
OTHER SIZES  
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CANTERBURY WORKS, VICTORIA BRIDGE, MANCHESTER

## TINORI PAINLESS CORN CURE

WHEN ONCE INTRODUCED SELLS ITSELF.

P.A.T.A. 2/- From All Wholesalers.

**EUGENE MAC SWEENEY, MFG. CHEMIST, CORK.**

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Trusses, Belts, Elastic Hosiery, &c.

Ask for "EUREKA" Brand

Obtainable from Wholesale Houses or

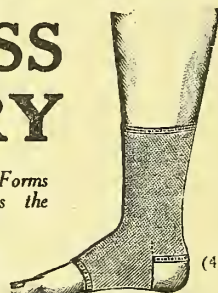
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Always  
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For Catalogues, Measurement Forms  
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(4)



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DYING BOARDS,  
SWANS, BIRDS,  
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WHOLESALE & EXPORT  
ENQUIRIES INVITED.  
WE ARE ACTUAL MANUFACTURERS

A VERY EFFECTIVE  
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SPECIAL DESIGNS  
SUBMITTED.

**JOSEPH HARRIS & COMPANY**  
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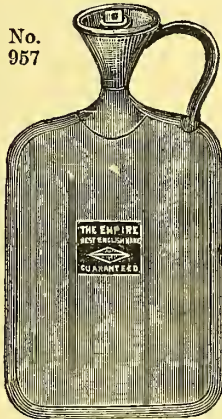


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One Quality only—THE BEST.

Guaranteed for 2 years.

No.  
957



These bottles have stood the test of thirty years' trade. Customers who have left us for cheaper goods nearly always come back to the firm in whom they can place confidence. This is the time to place your stock order.

## PRICES

Sizes in inches	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14
"Empire" brand heavy make, grey rubber, each	3 0	3 2	3 4	3 6	4 0	4 4	4 6	5 3
red " " "	3 8	4 0	4 3	4 6	5 0	5 6	5 9	6 6

Each bottle in a strong paper bag with directions for use.

## COVERS

Sizes in inches	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14
Scarlet or Grey Plush, each	1 2	1 4	1 6	1 7	1 8	1 10	2 0	2 3
Velour, assorted colours (washable) "	1 3	1 5	1 7	1 9	1 10	2 0	2 3	2 6

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A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

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WE WOULD ADVISE YOU TO  
BE PREPARED TO MEET THE  
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DRESSINGS, ALL FACTORIES  
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TINUALLY REPLENISH THEIR  
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## DRESSINGS

ARE USED. PRICE LIST ON  
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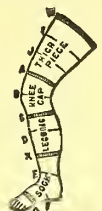
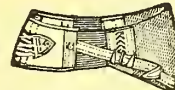
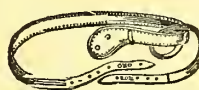
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Manufacturers



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Specialities :

BELTS, TRUSSES, SUSPENDERS,  
BRACES, DRUGGISTS' SUNDRIES.

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To give complete satisfaction"**

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**WHITE**  
AND ALL  
**COLOURS**

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SYDENHAM, LONDON**

**Cloth Ball**



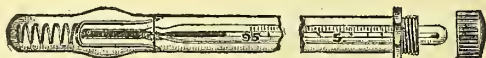
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### High Class Clinical Thermometers



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The Thermometer is sterilised each time it is placed in the case, and the markings on the tube are not defaced. Any 4" clinical will fit the case.

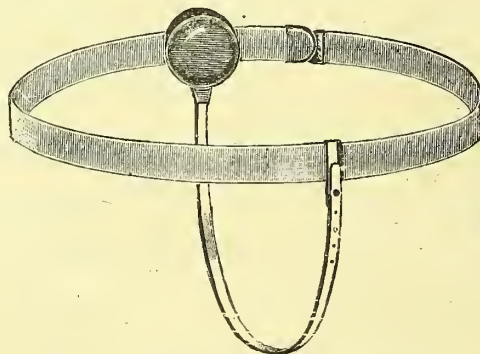
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**SIMPLIC**  
**SURGICAL**  
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THIS APPLIANCE embodies all the essentials so long sought after. It is EXTREMELY STRONG, INSTANTLY ADJUSTED to any size, and maintains an ADEQUATE PRESSURE under all conditions. The SIMPLIC TRUSS is specially designed for BATHING, being entirely rustless and unaffected by water. Specially prepared to suit all climates, it is the LAST WORD IN COMFORT.

OBTAINABLE THROUGH ALL USUAL SUPPLY HOUSES.

Buy SIMPLIC Branded Goods—TEATS, SOOTHERS, GLOVES, Etc.



SURGICAL  
RUBBER  
GOODS

BABY  
COMFORTERS

*Douglas Brand*

## HOT WATER BOTTLES

NOTED FOR THEIR SPECIAL CONSTRUCTION  
AND LONG WEARING QUALITIES.



MADE FROM FINEST RUBBER ONLY (IN DRAB  
AND RED). THE PATENT NECK DOES AWAY  
WITH OLD-FASHIONED WASHERS.

WRITE FOR PRICES.

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TRINDLE WORKS  
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often means incipient  
**Varicose Veins**

The recognised remedy and  
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**NORVIC**  
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Practically invisible  
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"Norvic" Bandages have at-  
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Stocked by all leading wholesalers.



*The*  
**Lullaby**

REGD.  
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SEAMLESS-MOULDED NEW  
PROCESS  
**FEEDING BOTTLE TEAT**



GOES ON EASILY  
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WONT PULL OFF

*Pure, Transparent,  
Heat-cured Rubber.*

Improved design, anti-choke  
thickened ball top. No ribs. Per-  
fectly hygienic, and easily boiled  
for sterilization without injury.  
Absolutely non-poisonous and  
practically anti-hygroscopic.  
Most durable of all teats. Packed  
each in carton in counter display  
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as the latest and best improvement in Vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

*Fully Protected by Patents.*



*You can safely recommend it.*

Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

Trade price, 125/- per doz.

Retail price, 15/- each.

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## THE "JARASO" Personal Weighing Machine

British Patent No. 23493/1910

Weights from 1 lb. to 20 stone.  
The weight is reflected auto-  
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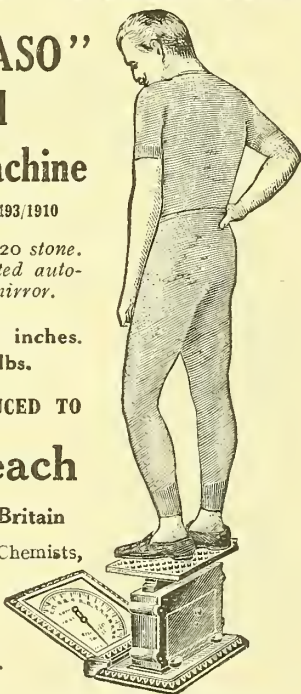
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Stores, Wholesale  
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in Great Britain,  
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For Men, Women, or Children.

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Telephone: Central 6852.

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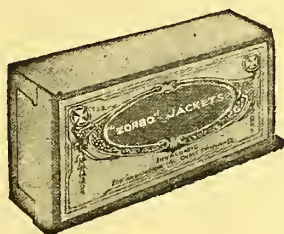


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*These Specialities have been found good and reliable stock and in demand for many years.*

# "ZORBO" PNEUMONIA JACKETS

(REGD.)



			Retail	Wholesale
No. 1.	8"×6" Infants'	.. ..	1/-	8/-
„ 2.	10"×8" Children's	.. ..	1/6	11/9
„ 3.	12"×10" „	.. ..	2/-	15/6
„ 4.	15"×12" Adults'	.. ..	2/6	19/-
„ 5.	19"×13" „ ..	.. ..	3/3	25/-
„ 6.	21"×15" Extra large	.. ..	4/6	32/-

## CHEST PROTECTORS

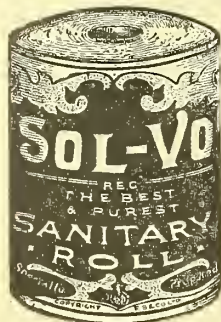
## "Capsicum"

				Retail	Wholesale
Small	Single	.. ..	.. ..	9d.	6/-
Medium	„	.. ..	.. ..	1/-	8/-
Large	„	.. ..	.. ..	1/3	9/9
Small	Double	.. ..	.. ..	1/6	11/6
Medium	„	.. ..	.. ..	1/10½	15/-
Large	„	.. ..	.. ..	2/3	18/-

**ROBERT BAILEY & SON, Ltd.** MARRIOTT STREET  
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Telegrams: "UNDISPUTED STOCKPORT."

Telephone: 2794 STOCKPORT.

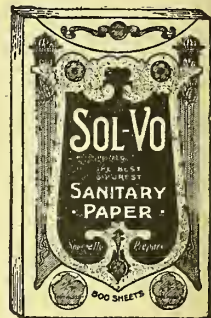
**SOL-VO SANITARY ROLLS & PACKETS.**

# SOL-VO

REGD

THE BEST & PUREST

## SANITARY PAPER



	per doz.
Three dozen Rolls ...	7/- net.
Half gross     "     ...	6/6     "
One gross     "     ...	6/-     "
Five gross     "     ...	5/3     "

	per doz.
Three dozen Packets ...	10/- net.
Half gross     "     ...	9/6     "
One gross     "     ...	9/-     "
Five gross     "     ...	8/3     "

CARRIAGE PAID. CASES FREE.

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are now sold in glass tubes, encased in smart, clean-looking "safety-first" cartons. They are retailed at 2d. each, made in 25 popular shades and colours, and are extensively advertised in the right publications.

You can rely upon Fairy Dyes—for prompt delivery in any quantities—for fresh stocks—for quick, easy-to-handle, clean turnover, and as tried favourites your customers are always satisfied. See that you are supplied without delay.

For Trade Terms and particulars write to

**FAIRY DYES, LTD.,**61, WELL ROAD  
GLASGOW.

London Depot

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## Olive Oil



Preferred throughout the world.

P. SASSO e FIGLI ONEGLIA, ITALY.

*The Largest Olive Oil Factory in Italy.*

Packed in Tins, Cases and Barrels.

GRAND PRIX, GENOA 1914: SAN FRANCISCO 1915.  
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**THE Throat Tablet for the coming season!**

# TONSILITIS AND SORE THROAT TABLETS

**Rx** Ac. Tannic, Ext. Krameria, Acid  
Carbolic, Menthol, Liquorice, etc.

For Laryngitis, Tonsilitis and Sore Throat. Most valuable in cases of Habitual Hoarseness and Irritation. Astringent and Demulcent.



Per 7/- doz.

Retail 1/3 (protected).

Each bottle neatly cartoned, Showouter and Showcard.

Sample on application.

Name and Address on 6 dozen (assorted as desired with other goods). Free delivery on £2 in Great Britain.

We are confident that these tablets will very largely replace Formalin combinations, and we advise our customers to hold stocks accordingly.

**ARTHUR H. COX & CO. LTD**  
Manufacturing Chemists  
BRIGHTON ENGLAND





# PRUNOL LIMITED

REGISTERED OFFICES:

PRUNOL LTD. 4 PICKERING PLACE, ST. JAMES'S STREET, LONDON, S.W.1.

REGISTERED  
TRADE MARK  
DIRECTORS:  
CAPTAIN LEGGE,  
MIDDLETON,  
MR. ALLEYN.

Directors of  
Prunol, etc.

## REPORT OF THE STATUTORY MEETING.

The Statutory Meeting of Prunol Ltd. was held at twelve o'clock noon on Tuesday, September 2nd, 1924, at the Registered Offices of the Company, 4, Pickering Place, St. James's Street, London, S.W.1.

The SECRETARY, having read the notice convening the meeting, the Chairman, Mr. H. M. ALLEYN, said:—  
This Company was registered as a Private Limited Company on 8th July, and the Statutory meeting to-day is held to comply with the requirements of the Companies' Acts.

Although there is no official business to transact, I take this opportunity of welcoming you, gentlemen, to these very charming and old-world quarters in which we have the good fortune to be housed. Pickering Place, dates from the 17th century, or thereabouts, and is said to have been at one time the residence of the Queen's Lady Hamilton. This is perhaps in keeping with the somewhat romantic origin of this Company, Prunol Ltd. was formed to supply, for the benefit of the public, an old-world remedy, which has been known for half a century as a home-made family preparation of the greatest value, a remedy to which my little son is indebted for his present good health, and probably for his life.

An interesting feature about this Company, gentlemen, to which I may refer is the fact that our Shareholders, with two exceptions, are entirely Ceylon men. In the old days, the Rubber Plantation Industry started and financed with Ceylon money, so to-day we have in a small way another example of the Colonial spirit of enterprise to which we owe so much in this country.

Prunol Limited was registered with an initial capital of £5,000 of which a limited number of shares are still available for those who may care to join in our adventure.

Our programme is a clearly defined one. We intend to advertise the Company's products, and to set up the finances of the Company out of profits, not out of capital. My own personal experience, over many years ago, when introducing the Domes of Silence, proved that on a capital of £250 it was possible to

realise a net profit of over £3,200 on the first year's trading, after meeting an advertising expenditure of over £15,000 during the year.

We may agree, gentlemen, that Prunol Limited is a speculative investment, but, in my opinion, we stand less risk of failure than many of the best known engineering and manufacturing businesses of the present day. Our market conditions are not affected by any political or communistic conditions. The question of import and export duties or rates of exchange does not worry us. We are, to all intents and purposes, immune from strikes; a recognized trade mark, a recognized branded name, and a remedy that humanity needs, does not suffer from competition, once it is known to and appreciated by the public. Such competition as there may be later on can be readily met in various ways, and instead of reducing, should be utilized to increase the profits and to improve the goodwill of the Company.

Although the Board of the Company is a small one, it has, in my opinion, the necessary qualifications that make for the successful conduct of any business, viz., experience and common-sense.

Mr. Middleton is a Director and adviser, on the accountancy side, to a well-known Company, whose posters you see on every hoarding. Captain Legge, R.N.R., who represents the majority of our Ceylon subscribers, is a gentleman who was well known in Ceylon, and a successful administrator of an important departmental position in the island. My personal experience of that most costly, difficult, and yet most remunerative branch of business, Advertising, has been, as you probably know, undoubtedly successful, so that as a Board, we hope we are in your opinion, reasonably well equipped to meet whatever changes and chances the future may bring.

As a Company we possess an outstanding advantage in our trade mark, "The Symbol of Life." A trade mark which will, we hope, be made familiar throughout the world in the course of a very few years as the sign manual of the Prunol Preparations. Our trade mark will be found to attract unconsciously the eye of every reader of a periodical or newspaper in which





advertisement of ours is inserted. This effect may be noted in to-day's issue of the *Daily Mail*, so that an expenditure of £1 in a small advertising space obtain the value of from £3 to £4 of space publicity. Multiply these figures by 1,000, or by as many thousands as the Company may in the course of years to come expend, and you will appreciate the concrete monetary value of our trade mark in building up, by means of publicity, a goodwill for the Company's products at minimum expense.

In addition to the most valuable Recipe of Prunes, Amerara Sugar, Senna and Ginger, which we are marketing as a branded and proprietary line, the policy of the Company will be to introduce other equally satisfactory remedies. The value of ginger for indigestion has been known to the Chinese for centuries. It is an aromatic and stomachic cordial, and in its proper form is an almost certain cure for most of the evils of indigestion. Yet its efficacy depends on the form in which it is administered; when prescribed in medical descriptions as pulverised or dried ginger, it is usually more detrimental than beneficial. The new preparation will be placed on the market under the name of Prunol "Syrup of Ginger," and will be prepared for sale, as in the case of our Prune Jelly, by a manufacturing firm of the very highest repute in Great Britain.

It is early yet to talk of these and other developments which we may have in mind, but we trust in time to place on the market various branded recipes of proven value for the safe treatment of most of the minor ills of modern life to which so many of the major ailments owe their origin. In other words, we trust to furnish the family medicine chest with standard and approved remedies that can be relied upon with confidence for use from the dawn of childhood to the sunset of life. You may consider our programme an ambitious one, but it does not follow that we propose to run before we can walk. It is the intention of this Board to use that great quality, Patience, to a much greater extent than Capital in securing the necessary approval and support of the public for our goods.

We have been fortunate enough, through the enterprise and goodwill of our Advertising Agents, to arrange a contract with the *Daily Mail* for the insertion of an advertisement twice weekly on what we consider the most suitable page of the paper. In my opinion, each ten copies of the *Mail* are read by at least fifteen people. On this basis our expenditure per reader of the *Mail* during the period of an entire year will slightly exceed one farthing per reader. In return for the expenditure by us of one farthing per reader each reader of the *Mail* will have before him twice each week, or 104 times during the year, a well-

worded advertisement pointing out the advantages of our products. I am personally a great believer in steady and persistent publicity, addressed to the same people week in and week out. If only a very small percentage of readers become buyers, it places this Company in a position of exceptional financial strength and profit-earning capacity, for direct sales involve the stocking of our goods in reasonable quantity by all chemists and druggists. Thus, if only one in ten of every reader of the *Mail* purchases one of our branded specialities once a year, the profit income of this Company should be from four to five times as much as its total authorized capital, yet every reader of the *Mail* will have our preparations placed before him not once, but 104 times during the course of each year.

We do not claim to cure cancer, or consumption, or any of the other great scourges of the human race, but we do claim that our remedies will in many cases do much to prevent and hinder their genesis and growth.

Before concluding, gentlemen, I should like to mention the further developments we have in mind as regards our Colonial Dependencies, the great overseas markets of the world, and the Continent of Europe. It is proposed to form almost immediately a separate Company, in which this Company will take an interest, to place the Prunol Preparations on the French, German, Italian and other markets of Europe. Each country will be dealt with separately and in sequence. When a success is made of one country, and local capital has been arranged for, the Prunol Specialities will then be introduced to another and different market. In other words, in introducing Prunol we shall adopt the Roman method of breaking a bundle of rods, by dealing with each country separately and in sequence. Full particulars of the capitalization of the new Company and all other details may be obtained on application to the Secretary, at this address, by those who may desire to take a financial interest with us in what should prove to be a sound and, we hope, an exceptionally remunerative venture.

In conclusion, gentlemen, I should like to personally thank you for your support, and to congratulate you on the enterprise you have shown, an enterprise which will, I feel sure, prove as successful as even the most optimistic among us may desire.

A resolution appointing Messrs. Middleton & Hawkins, Incorporated Accountants, as Auditors to the Company, having been duly proposed and seconded, was carried unanimously.

The Meeting concluded with a vote of thanks to the Chairman.





# THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.  
LONDON E.C. 4

SEPTEMBER 13, 1924

*This Supplement is inserted in every copy of The Chemist & Druggist.*

## THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

*Addressed Wrappers Stamped One Penny*

must be sent. Loose stamps will not be accepted.

## CLOSING FOR PRESS.

MUST REACH US  
NOT LATER THAN

FIRST POST THURSDAY MORNING.

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## CHEMISTS' TRANSFERS.

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2.—BAYSWATER.—Good-class Retail Business, with Kodak Agency; returns, about £2,000 per annum under management; gross profit, 40 per cent.; double-fronted shop, with large basement, which could be sub-let; held on lease; price £900, or small sum for goodwill, and valuation of stock and fixtures.

3.—NORTH KENT (Suburban).—Working- and Middle-class Retail Business, with N.H.I. Dispensing; established 60 years; returns, £1,100 per annum, at full prices; good living accommodation; premises may be purchased, or possibly a lease would be granted; price £850.

4.—LONDON, E. (Thickly Populated District).—Vendor retiring on account of ill-health and old age; Retail and Prescribing Business, returning about £30 weekly, with scope for considerable increase; single-fronted shop; good working stock; premises comprise 5 rooms and pharmacy; rent, £40 per annum; no near opposition; reasonable offer accepted for quick sale.

5.—VICTORIA STATION (Few Minutes from).—High-class Retail and Dispensing Business; very old established; returns approach £3,500 per annum, with a net profit of about £700 per annum; the pharmacy is well fitted and fully stocked; good living accommodation, bath room; held on lease; price £2,500.

6.—SOUTH LONDON.—Ready-money Business; returns, under management, £3,374; gross profit, 34 per cent.; books kept by Chartered Accountant; large double-fronted shop; 6-roomed house; 19 years' lease; price £3,250.

7.—JLFORD (Near, Main Road Position).—Cash Retail Business, very much neglected; returns, about £1,700 per annum; net profit, 25 per cent.; double-fronted shop; small house; very low rent; held on lease; further details on application.

8.—LONDON BRIDGE (20 Miles From).—General Retail and Dispensing Business, with Kodak Agency; established 80 years; returns, about £28 weekly; net profit, over £300 per annum; figures audited; living accommodation; rent, £30; price for immediate sale, £365.

9.—SOUTH-EAST COAST.—Photographic Business, with excellent opening for Chemist; returns, £1,400, most of which is done in the season; net profit, £500; double-fronted shop, 20 ft. frontage, well fitted and stocked; 1,600 sq. ft. of ground at rear; rates, £40 per annum; vendor wishes to sell freehold with the business; price, to include property, £2,350.

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12.—SOUTHERN COUNTY.—Cash Retail and Photographic Business, situate in main street; approximate returns, £750, at usual prices; single-fronted shop, fitted in mahogany and well stocked; small living accommodation; electric light throughout; rent, £50; held on lease; price about £600.

13.—MIDLANDS.—Branch Business, with Kodak Agency and Wine Licence; returns approach £1,400 yearly, at full prices; small, single-fronted shop; rent, £55; 21 years' lease, with option of purchase; price £650; or, with property, £1,200.

14.—FOLKESTONE (Few Miles From).—Retail and Dispensing Business, with Wine Licence and Small Optical connection; returns, present rate, £2,000 per annum; attractive pharmacy, very well fitted; good working stock; comfortable house, garden; held on lease, or property may be purchased; further details on application.

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8.—BRIGHTON.—Cash Drug Stores; recently established; returns, £12 per week, but good scope for increase by a young qualified man; 7 years' lease; rent, £42 per annum; good living accommodation; centrally situated; £770, or offer. (121)

9.—MIDLANDS.—Small Business, in busy part of important town; returns, £26 per week; Kodak, Wine Licence, etc.; rent, £45; dwelling house let off at £13 p.a.; 21 years' lease; price £650; freehold property can be acquired. (136)

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6.—HAMPSHIRE.—Old-established Light Retail and Dispensing, with Kodak Agency; net profit, over £400; low rent; long lease; house available; stock and fixtures worth £1,000 price £1,285.

7.—SHROPSHIRE.—Good-class Light Retail, with Kodak Agency; returns, £35 to £40 weekly; good profits; plenty of scope; busy market town; large, well-fitted shop, lock-up, and fully stocked; price £1,500.

8.—BRIGHTON.—Good-class Retail and Dispensing, in main road position; returns, about £25 weekly; good profits; rent, £52 clear; long lease; well stocked; price £800.

9.—BAYSWATER, W.—Genuine Light Cash Retail, with Kodak Agency; returns, £2,000, under manager; scope for increase; prominent position; price for quick sale, £900.

10.—LONDON, E. (in Busy Main Road).—Genuine Cash Retail, with N.H.I.; returns, £45 weekly; net profit, £12 a week clear; large shop, well fitted and stocked; price £1,600, or offer.

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**CITY** Pharmacy, adjoining District Railway Station, for immediate disposal; price about £650. Full particulars on application. 52/25, Office of this Paper.

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**NORTH WALES** (seaside).—Small Business for Sale, unopposed, in growing district; lock-up shop; rent £20; no rates; returns between £500 and £600; capital opening for beginner or lady, also for N.H.I.; price £400, or near offer. Enclose stamped envelope for reply to "S. H. F.," 51/7, Office of this Paper.

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**CHEMIST'S** and Tobacconist's Business for Sale.—The Medical Hall, Tarbert, Lochfyne, to be disposed of in order to close a trust estate; this is an old-established business, and is the only chemist shop in Tarbert; a lease of the premises or the option of purchasing same might be given to a suitable offer. Apply Patrick J. Stirling & McCarthy, Writers, 175 St. Vincent Street, Glasgow; or Duff & Cruickshanks, C.A., 127 St. Vincent Street, Glasgow.

**ELDERLY** gentleman, retiring, has good Business for Sale; beautifully fitted, mahogany and plate glass, recess bottles; pretty village in Yorkshire; I am not on N.H.I., which would more than pay rent; convenient house, with electric light throughout. 43/13, Office of this Paper.

**LIGHT** Retail, Dispensing and Photo; returns £2,300, with ample scope for increase; in Midland health resort; price Goodwill and valuation of Stock and Fixtures about £1,600. "Midlands," 52/569, Office of this Paper.

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**LIVE** Firm, with good selling organisation, wanted to take up the sale on the English market of popular Canadian Pharmaceutical Specialities. Correspondence to The Kennedy Manufacturing Co., Montreal, Canada.

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**BATH**.—Competent Assistant (male) required for September 29; accustomed to good-class Dispensing business; aged 25-27; permanency; no N.H.I. Apply, with details of experience, height and salary required, enclosing photo if convenient, John Hawes, 37 St. James's Square, Bath.

**BIRMINGHAM**.—Junior, unqualified, outdoor, 3 to 4 years' experience, wanted on September 22 in good-class Retail and Dispensing business, with Photographic, in Birmingham suburb. Full particulars, salary, references, etc., to Smith, Chemist, 221 Soho Road, Birmingham.

**BIRMINGHAM**.—Permanency, at once; experienced Lady Assistant for brisk Pharmacy, qualified or unqualified; Sales ability essential. Full particulars first letter. Applications not answered in three days are declined. Howes, Chemist, Stirlchley.

**BIRMINGHAM DISTRICT**.—Quick, capable, young Junior or Improver wanted for medium and working-class Business. Please send references and full particulars to 55/8, Office of this Paper.

**BRADFORD**.—Smart, Qualified Assistant required as Senior for Counter; must have had high-class Retail experience. Apply, stating experience, age and salary required, to F. M. Rimmington & Son, Ltd., 9 and 11 Bridge Street, Bradford.

**BRIGHTON**.—Wanted shortly, reliable Assistant for good-class Dispensing and Family Business; must have had good experience; qualification not essential. Apply, with full particulars as to age, height and salary required, to J. Miller, 4 Victoria Road, Brighton.

**BRISTOL**.—Locum, immediately; whole or part-time; careful and competent. John, Oakfield Road Pharmacy, Clifton.

**COVENTRY**.—Junior or Improver (outdoor), October 6; Photography an advantage. Give references, age, salary required and all particulars in first letter. Hall, Chemist, Stoney Stanton Road, Coventry.

**CRYODON**.—Qualified Assistant wanted; must be used to good-class Dispensing. State age, salary required. Interview necessary W. E. Matthews, Ltd., 40 George Street, Croydon.

**DERBYSHIRE**.—Qualified man to manage small branch; good all-round experience requisite. Particulars of experience, age, salary expected, and recent references to 50/8, Office of this Paper.

**EAST KENT**.—Required shortly, a good Qualified Assistant, age 25 to 30, for Branch Business; must be good Counter-man and accustomed to middle-class trade. Please state full particulars. "East Kent," 53/18, Office of this Paper.

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**THERE** is a vacancy for a Dispenser holding the Pharmaceutical Society's qualifications. Applications should be by letter to the Pharmacist, stating age and experience.

**ILFRACOMBE**.—Assistant required (male, age about 30) on October 1; accustomed to good-class Retail and Dispensing business, knowledge of Photography. Apply, giving full particulars, age, height, salary required, and latest references, to W. J. Moon, 2 High Street.

**LANCASHIRE**.—Qualified Manager required; working and middle-class district; N.H.I.; mixed business; single-handed; hours, 8.30 a.m. to 8 p.m. Apply, giving age, experience, salary, etc. (photograph returned if stamped envelope enclosed), 54/33, Office of this Paper.

**LIVERPOOL**.—Unqualified Assistant; good Stock-keeper, Counterman. State age, references, wages required in first letter. Letters not answered in three days declined. Interview by appointment only. John McGuffie & Co., P.O. Box 110, Liverpool.

**LONDON**.—Assistant required; good at Counter and Window-dressing; accurate Dispenser; Photography. Write full particulars and references, stating age and wage required, 53/33, Office of this Paper.

**LONDON, S.E.**—Junior Assistant (gentleman) required, chiefly for dispensing, in a brisk Retail business; must have had a good training. Please state full particulars of experience, age, and salary required (outdoors). 53/23 Office of this Paper.

**LONDON, S.E.**—Smart Junior Assistant required; unqualified; knowledge of Photography essential; good Window-dresser. Apply Winton's Drug Co., Ltd., 66 High Street, South Norwood.

**LONDON, S.W.**—Junior Assistant required end of month; must be good Dispenser and Counterman, and accustomed to high-class business; man with London experience preferred. Apply, giving fullest particulars as to age, height, experience, and salary required (outdoors), to Barnes & Marsh, 194 Upper Richmond Road, Putney, S.W.15.

**MANCHESTER**.—Manager wanted for working-class business, with N.H.I. Usual particulars as to age, experience and salary required. 53/21, Office of this Paper.

**MANCHESTER DISTRICT**.—Qualified Man wanted; quick Counter trade, N.H.I. Dispensing and Photographic, Window-dressing. Full particulars, with salary required, references and photograph (if possible), to 54/34, Office of this Paper.

**MIDLANDS**.—Unqualified Assistant required; must be a good Dispenser (N.H.I.); comfortable and progressive post. "Midlands," 53/30, Office of this Paper.

**OXFORD**.—Competent Assistant (unqualified) wanted for high-class Family and University business. Apply, stating experience, references, age, height, salary required, and if convenient enclose photo, The Oxford Drug Company, Ltd., Dispensing Chemists, Oxford.

**PLYMOUTH**.—Smart Assistant, unqualified, for Counter and Dispensing; must be good Salesman and Window-dresser, with knowledge of Photography; good appearance. Apply, with full particulars, salary, age, to Lewis, 34 Tavistock Road, Plymouth.



**SOUTHEND-ON-SEA.**—Experienced Manager, possessing Optical qualifications, for Branch Business; excellent accommodation might be arranged. Write, stating in first letter full particulars of experience, positions held, age, salary, photo if possible (replies treated in confidence), to Body's Pharmacies, Broadway, Southend-on-Sea, Essex.

**UNIVERSITY COLLEGE HOSPITAL,** Gower Street, W.C.1.—Wanted, Assistant Dispenser, holding Pharmaceutical Society's qualification. Hours 9 to 5; Saturdays 9 to 1. Six hours' additional duty every fourth week. Commencing salary £165 per annum; lunch and tea provided. Apply to C. H. Hampshire, Pharmacist.

**A JUNIOR** Assistant of good training for Dispensing Business. Apply, enclosing photo, T. O. Barlow, 2 Palmerston Road, Southsea.

**CAPABLE** Pharmacist to manage good-class Pharmacy; one with Optical experience; qualification preferred; pleasant seaside South Coast town; good progressive situation. State age, experience and salary to Allison, Chemist, Arundel. Also Locum for early October.

**CHEMIST.**—Qualified man, young and energetic, required to manage a branch shop; must be absolutely trustworthy. Applications, with full particulars of experience, age, salary required, and names for two references, to be sent not later than September 18 to Doncaster Co-operative Society, John Street, Doncaster. Envelopes to be endorsed "Pharmacist."

**COMPETENT** unqualified Gentleman, about 30, of good address, wanted; good all-round experience; active and obliging; understand Photography and Window-dressing and have undeniable references. Photo and full particulars in first letter, "London, S.E.," 54/14, Office of this Paper.

**IMPROVER** (male or female) wanted for Chemist; must be smart and of good address. Apply, giving particulars and salary required, Rencleys, 35 High Street, Hythe.

**JUNIOR** Assistant required, early October; Dispensing, Counter, and Photography; outdoors. Full particulars to Strachan, Pharmaceutical Chemist, Tavistock Street, Bedford.

**JUNIOR** Assistant (outdoors) required immediately for country business; one with knowledge of Agricultural and General Business preferred. Apply, with photo and full particulars, to Bouchier, Chemist, Bridgwater.

**JUNIOR** unqualified Assistant wanted for September 29, used to good-class Dispensing and Counter work. Apply, stating age, height, experience, and salary required (indoors), to B. Salter & Son, 34 Castle Street, Shrewsbury.

**JUNIOR** Assistant, who is a neat and accurate Dispenser, wanted, October 6 (outdoors). Apply, with full particulars and photograph (to be returned), G. Elliott & Son, Chemist, Walsall.

**JUNIOR** Assistant, outdoor, required for good-class Retail and Dispensing business; first-class references essential. Apply, with full particulars as to age, experience, references and salary, to J. G. Mellor, 40 High Street, Warwick.

**JUNIOR** Assistant. Usual particulars and when disengaged. Matthews, Chemists, 401 High Road, Leyton, E.10.

**JUNIOR** Assistant wanted for good-class Family and Dispensing Business. Apply, with full particulars and salary required, to Ekins & Fisher, Market Place, St. Albans.

**LADY** Assistant wanted, Retail and Dispensing, for good-class business in suburban district. Please state full details of experience, age, salary required and when disengaged. Apply by letter to Parkes, Chemists, Limited, 65 Harwood Street, Kentish Town, N.W.1.

**LADY**, qualified, as Manageress for high-class Pharmacy in East London. Apply in first instance by letter only, stating age, experience, qualification, when disengaged, salary required (indoors) and references; enclose photo, to be returned. Lawes, 17 Old Kent Road, London, S.E.1.

**LOCUM**, immediately, from September 13, for one week; one used to good-class Dispensing and Photography. Apply D. L. Evans, 32 Harrington Road, near South Kensington Station, S.W.

**LOCUM** wanted at once for Chemist and Optician's Business. Apply, stating terms, P.C.B., 6/21, Office of this Paper.

**QUALIFIED** Manager required at once for small Branch Business in country town in Somerset. Apply, with photo and full particulars, to Bouchier, Chemist, Bridgwater.

**QUALIFIED** Manager for new business about to be opened in a West London suburb; must be a good Salesman, smart Window-dresser, and well up in Photography; the position offers great scope, and a man who can build up a business will be well treated; nice little flat over shop vacant. Apply, with full particulars as to experience, record, and salary required, 52/567, Office of this Paper.

**QUALIFIED** Locum wanted for one week from 20th inst.; lady preferred. State terms. Neill's Drng Stores, Ltd., 163 Ripple Road, Barking.

**QUALIFIED** Lady required to act as Locum from September 22 to October 10; live in. Write, stating salary required, to Anderson, Chemist, Ferry Road Pharmacy, Shoreham-by-Sea.

**QUALIFIED** Assistant, with a good general knowledge, wanted for quick business. Please give particulars as to age, height, experience, references, when disengaged, and salary required, in first letter, or apply personally. Applicants unanswered in four days respectfully declined. Bishop & Vincent, 460 Holloway Road, London, N.7.

**QUALIFIED** Chemist wanted. State age, wages and when at liberty. Apply 16 Branch Road, Armley, Leeds.

**SENIOR** Assistant wanted, chiefly for Dispensing; good all-round experience essential. Shields & Warren, London Road, St. Albans.

**SURGICAL** Instrument Business; Assistant for front shop in provinces. Address, stating what duties proficient in, age and wages expected, good character indispensable, 53/14, Office of this Paper.

**UNQUALIFIED** Junior for London suburb; age about 23 to 25, with good experience, Counter, Dispensing, Window-dressing, and Photography; must have good references. Apply P.C.B. 5/19, Office of this Paper.

**UNQUALIFIED** Junior wanted; quick and accurate. State full particulars in first letter. If not answered in three days respectfully declined. Bate & Gorst, Chemists, Lancaster.

**UNQUALIFIED** Junior (male) wanted for Dispensing and assistance at Counter; permanency; closing hours six o'clock, Saturdays 8.30 no Sunday duty; pharmaceutical classes at Sunderland (12 miles). Send full particulars of age, experience, etc., Smith, Chemist, Durham.

**UNQUALIFIED** Assistant (male), 26-40, wanted at once for good-class light Retail and Dispensing business in country town; permanency, with very good prospects, to suitable man. Please give full particulars age, height, experience, salary (outdoors), enclosing photo, to 54/25, Office of this Paper.

**WANTED**, competent unqualified Assistant; must be energetic, good Salesman and Window-dresser, with Dispensing experience and knowledge of Photography. Apply, with full particulars, photo, salary required, to 51/560, Office of this Paper.

**WANTED**, Qualified Managers for low-class districts in Manchester. State fully by letter, age, qualifications, sex, when at liberty, salary, also if any money, what amount, with option of taking interest in branch that they will manage, by letter to 50/6, Office of this Paper. All replies treated with strict confidence.

**WANTED**, young lady, at once, experienced, for Drng Stores; Counter, Stock, etc. Greenwood, Lumley Road, Skegness.

**WANTED**, competent Junior Assistant, unqualified, for October 1. Please state salary and experience, and enclose photograph. Gower, Chemist, Tonbridge, Kent.

**WANTED**, Second Assistant, single, with experience in Dispensing, Photography and Counter, for good-class business. In reply give age, height, references, salary and photo (which will be returned). T. L. Nicholls, 18 Duke Street, Chelmsford.

**WANTED**, for London N.W. district, by October 6, Unqualified Assistant (outdoors); must be a good Dispenser. Apply, stating full particulars as to experience, salary required, etc., to "Spec," 53/25, Office of this Paper.

**WANTED**, Qualified Gentleman or Lady for a Mixed Business, with a fair amount of N.H.I.; easy hours; half-day; no Sunday duty. Reply with full particulars re salary (moderate), to "Aurantii," 54/6, Office of this Paper.

## WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

**MANCHESTER** firm of Manufacturing Chemists require the services of an experienced Traveller to call upon Retail Chemists in Manchester and district; one with connection preferred; good salary to sound man. 52/566, Office of this Paper.

## CHEMISTS' SUNDRIES.

**EXPERIENCED** Traveller wanted; connection and previous experience in Sundries essential; ground, South Yorks, West Riding, N.E. Lancs; residence in Leeds district preferred. Thomas Swales, Butts Court, Leeds.

**ASSISTANT** Representative required for Wales by old-established Toilet Soap and Perfumery House; Public School or good education essential; knowledge of Drng Trade or established connection an advantage; position is suitable for a keen, young, unmarried man. 52/570, Office of this Paper.



**PHOTOGRAPHS, TESTIMONIALS, &c.**

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) **ORIGINAL TESTIMONIALS** or **VALUABLE PHOTOGRAPHS**. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

**HIGH-CLASS** Toilet Preparations offered to energetic man with good established connection among Chemists; state territory; remuneration according to ability. The "Estosa" (Regd.) Perfumery Co., Cunliffe Street, Liverpool.

**LABORATORY FOREMAN**.—Capable and thoroughly experienced man required by a Provincial House; must be able to take full control. Apply, stating details of former experience and wages expected, 54/15, Office of this Paper.

**MANAGER**.—Northern Provincial House requires Chemist (qualified preferred) to take full charge of Laboratories and mixed staff. Please give full particulars in first letter of previous experience, age, and salary required. 54/40, Office of this Paper.

**REPRESENTATIVE** for Essex, Kent, Surrey and Sussex required by the United Chemists' Association Ltd. Applications invited in confidence. Managing Director, Ucal Works, Cheltenham.

**REPRESENTATIVE** required by big firm to call upon Doctors, Chemists and Hospitals in the Midlands; applicants should have had previous experience, though consideration will be given to good men without; must be good salesman, hard worker, and under 40 years of age; interview in Birmingham Wednesday. 52/568, Office of this Paper.

**REPRESENTATIVES** calling on Chemists to carry two splendid sellers as Side-line; good commission, quick repeaters; chemists filling up now for autumn and winter. 52/28, Office of this Paper.

**RESIDENT Representative** to call on Chemists in Manchester District for well-known Proprietary; must be able to drive decorated Ford tonner; salary and commission; first-class references essential. Apply, with full particulars of age and experience, to F.B.W.I., c/o E. J. Reid & Co., Ltd., 49/50 Watling Street, E.C.4.

**TINCTURES** and General Manufacturing.—Goodall, Backhouse & Co., White Horse Street, Leeds, require a young man at once as Assistant in their Pharmaceutical Laboratory; previous experience essential. Give full particulars in first letter and state wage required.

**TRAVELLERS** required for good Winter line nationally advertised and selling well; commission only, 12½% first order, 5% repeats; advertising campaign recommences end of September; state ground covered. 53/300, Office of this Paper.

**UNDER-FOREWOMAN** wanted; thoroughly experienced in Superintending Bottling, Packing, and Finishing of Proprietary Medicines. Apply by letter only, stating age, experience, and full particulars, to P.A., 179 Acton Vale, London, W.3.

**[COLONIAL, INDIAN AND FOREIGN.]**

**FAR EAST**.—Wanted, European Travelling Representative for India, Burmah, Ceylon, Strait Settlements, Malay, Siam, on commission only, by Southall Bros. & Barclay, Ltd., Birmingham, Manufacturers Drugs and Chemicals, Surgical Dressings, Sanitary Towels, etc., Druggists' Sundriesmen; knowledge of Drugs and Drug Trade essential; experience of markets important; commence working territory October-November; state present agencies and give fullest particulars and references.

**FAR EAST**.—Wanted, for the Far East, qualified Assistant; good experience essential; age not over 30; single; liberal salary; 4 years' agreement; passage paid out and home. Apply "China," 52/35, Office of this Paper.

**MONACO**.—Monsieur A. Fournier, Pharmacien, rue Grimaldi, Monaco, desires to engage an English Assistant for next season; one speaking French for preference. Write direct, giving all particulars.

**NYASALAND**.—Opening for Fully-qualified Chemist to take charge of Druggist Department of General Store; either on salary and commission or a man with small capital to invest would be considered; 4 years' agreement; passage both ways. For further details apply to 51/10, Office of this Paper.

**SITUATIONS WANTED.****RETAIL.****[HOME.]**

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

**A GENTLEMAN**, aged 28, with no previous experience, who has attended the classes necessary for Part I, desires to become Apprenticed to a Pharmacist for two years. Apply P.C.B. 5/30, Office of this Paper.

**A POSITION** with a West-End Pharmacist is required by a Junior. 50/39, Office of this Paper.

**APPRENTICE**.—Situation required for youth, 17; general schools examination; indoors; 30-50 miles from London. W. H. R. Steele, 273 Fulham Road, S.W.10.

**A S Manager**; qualified; tall and good appearance; 28; high-class Retail and Dispensing experience; excellent references. 54/11, Office of this Paper.

**A S Senior or Manager**; excellent references; 37; married; disengaged end October; preference West Midlands or South Coast. "Pharmacist," 52/33, Office of this Paper.

**A S qualified Manager**; 20 years' West-End experience; competent in all branches. "Statim," 84 Courtland Avenue, Ilford.

**ASSISTANT**; unqualified; Stock, Counter, Dispensing, Prescribing; excellent references reliable and hard working. Miss Black, 3 Bedford Street, E.

**ASSISTANT**; first-class experience, Qualified; London or radius of 20 miles. "Pharmacist," 52/27, Office of this Paper.

**ASSISTANT**; qualified; 25; good Counter, Photographic, Dispensing experience; excellent references; disengaged any time. Richardson, Pentrich View, Cromford Road, Molesey, Derbyshire.

**ASSISTANT**; neat and quick Dispenser; good Counterman; well up in Photography. "Chemicus," Essex House, Middle Barton, Oxford.

**ASSISTANT**, middle-aged, unqualified, seeks post; small country town preferred; good references; all-round knowledge, Dispensing, N.H.I., etc.; not afraid of hard work; highly recommended by present employer; slight knowledge of Photography. Apply A. Everson, c/o Turton Green, 1 Market Place, Henley-on-Thames.

**ASSISTANT**, Senior; reliable; good address; high-class Dispensing and Retail experience; height 5 ft. 6 in.; excellent reference. D. T. Morgan, 294 London Road, Thornton Heath.

**ASSISTANT or Manager**, 32, unqualified, good appearance, unimpeachable references, seeks progressive post; experienced all branches. "Ajax," 437 Stapleton Road, Bristol.

**ASSISTANT**; many years' good-class London experience; excellent references; accustomed to take charge; temporary or part-time work accepted; W. or S.W. suburbs. Smith, 23 Lacy Road, Putney.

**ASSISTANT**; Locum or permanency; 53; height 5 ft. 8 in.; good-class, all-round experience in Retail, Dispensing and Photographic; good Counterman and Window-dresser. "Business," 53/16, Office of this Paper.

**ASSISTANT Manager**; thorough varied experience, all class, including management; smart; good Counterman. "Chemicus," 162 Lloyd Street, Greenheys, Manchester.

**BOURNEMOUTH** or near; 24; competent unqualified Dispenser or Assistant; 6 years' good-class general experience in London and country; excellent references. "O. P.," White House, Corfe Mullen, Wimborne.

**BRANCH Manager or Locum**; disengaged October 6. T. Hutchings, 11 Meanley Road, Manor Park, E.12.

**CHEMIST**, 29; disengaged September 29; managing; experienced (London); excellent references; West-End preferred; any capacity. "Salesman," 34 Rectory Grove, Clapham, S.W.4.

**CHEMIST-OPTICIAN** (F.B.O.A.) as Manager; excellent experience; undeniable references; 37; married; several years last position. 52/31, Office of this Paper.

**DISENGAGED** October 1.—Experienced Assistant, male; Locum or permanency; 5 years' reference. "Aspirin," 50/11, Office of this Paper.

**DISENGAGED** September 14.—Locum; excellent experience and references; moderate terms. "Locum," 80 Edwin Street, Gravesend, Kent.



**D**ISPENSER (Hall), 19, desires berth in London or Kent; small salary to gain further experience; good references. M. J., 3 Stafford Road, Tonbridge.

**D**ISPENSER, Qualified, experienced, wishes post with Doctor or Institution. Apply Miss Knox, 131 Alexandra Road, St. John's Wood, N.W.

**D**ISPENSER seeks part-time post in London; held responsible position; age 27. "Advertiser," 28 Denning Road, Hampstead.

**D**ISPENSER (Hall) desires post; good Hospital and Doctor's experience; testimonials; young lady. "D. E. F.," 65 Mayfair Avenue, Ilford, Essex.

**E**VENING work, Dispensing and Counter; North or North-East London preferred. P.C.B. 5/29, Office of this Paper.

**E**XPERIENCED Dispenser, Book-keeper, Dresser; disengaged; town or country. "Sigma," 114 Bow Road, Bow, E.3.

**E**XPERIENCED lady Dispenser (Hall) requires work with Doctor or Institution; free now. Biggwither, 12 Colosseum Terrace, Regent's Park.

**E**XPERIENCED Assistant; College trained; competent in Dispensing, Counter, Stock, Prescribing and Window-dressing; little experience in Photography; trustworthy; abstainer. 55/3, Office of this Paper.

**E**X-SERVICE man seeks work as Dispensary or Nurse Attendant; very excellent references from members of the medical profession and employers. 41/20, Office of this Paper.

**G**IRL (17) desires to qualify as Dispenser, seeks vacancy London or East Suburbs. Hand, 18 Wilmington Gardens, Barking.

**J**UNIOR, free September 15; capable, accurate Dispenser, Counter, Photography, Window-dressing; tall, active; Cardiff, Bath, Cheltenham preferred, though not essential. Morgan, 205 Gladstone Road, Barry.

**J**UNIOR or Improver requires position in Country Pharmacy; Somerset or Devon preferred, not essential; D. and P. Photographic, N.H.I. Dispensing, and Counter; disengaged at once. Sheppard, Bakery, Mark, Somerset.

**L**ADY Dispenser (Hall), experienced, excellent credentials, requires post with Doctor, Chemist, or Institution; London or district. Douglas, 21 Seymour Road, East Molesey, Surrey.

**L**ADY Dispenser (20) requires post; good references; South Coast preferred, not essential. Hazeldine, 36 Dartmouth Road, Olney, Bucks.

**L**ADY Dispenser, 24, requires post with Chemist in Devon; 7 years' experience; excellent references. Phillips, "Glenmore," Dawley, Shropshire.

**L**ADY Dispenser, 19, Hall qualifications, desires post at Hospital, Doctor's, or Chemist's (Wales preferably). 50/13, Office of this Paper.

**L**ADY Dispenser (Hall) requires post with Doctor; experienced; temporary or permanent. West, 47 Vicarage Road, Leyton, London, E.10.

**L**ADY Assistant; unqualified; good appearance; 4 years' experience, Counter and Stock; knowledge Photography; East Coast preferred; good references. 53/7, Office of this Paper.

**L**OCUM; disengaged September 21; best experience; £5 per week, outdoors. "Pharmacist," 15 Hestercombe Avenue, Fulham, S.W.

**L**OCUM; reliable; abstainer; take entire charge; disengaged 29th inst. "Pharmacist," Evans Sons Lescher & Webb, Ltd., Chemists, Liverpool.

**L**OCUM or permanency; London or near; disengaged Monday, September 15; excellent experience and references. 24 Mead Plat, Willesden.

**M**ANAGER or Senior Dispenser; Qualified, good experience, excellent references; disengaged October 6. "W.," c/o Officer, Chemist, Stockport.

**M**ANAGER, Senior, Locum; Major; experienced; abstainer; good references; disengaged September 20. Anthony, c/o Price, 51 Fairfax Road, N.W.6.

**M**ANAGER, Drug Stores or otherwise; thoroughly reliable worker; capable of increasing returns; first-class references; terms moderate; unqualified; disengaged September 27. "R.," c/o Mousley, 34 Crouch Hill, N.4.

**M**ANAGER, qualified, disengaged September 20 or earlier, desires position, busy Retail; energetic, capable and experienced; good Prescriber and Salesman; living accommodation if possible; London or large town; 25 years' managing and controlling experience. "Manager," 157 Uxbridge Road, Hanwell, W.7.

**M.P.S.**, SMART, active, with long experience as Manager, requires similar post, or would entertain Locum; good organiser; general knowledge of Photo, careful Buyer, and accustomed to control; disengaged. "D. O. C.," 204 Stapleton Hall Road, Stroud Green, N.4.

**M.P.S.**, LADY, young, requires post high-class Pharmacy in West of England, London experience, or as Locum, any district, after September 20. "Chemist," 21 Blunts Lane, Whittlesey, Peterborough.

**M.P.S.**—MANAGER or Senior Assistant desires post in Birmingham; age 32; married; tall; good experience; excellent references. 54/23, Office of this Paper.

**O**CTOBER.—Part II Student, experienced Dispenser, accustomed to a first-class Dispensing establishment, seeks post London; whole or part-time; personal interview. Apply "Pharmacy," 50/9, Office of this Paper.

**O**PTICS.—Qualified Chemist (25), well experienced, desires progressive situation where practical knowledge of Sight-testing may be obtained; London area preferred; Interview Thursday afternoon; free one month after engagement. "C.," 92 Samuel Street, Woolwich, S.E.18.

**Q**UALIFIED (25) desires responsible position in busy, good-class Business; experienced all branches; good, courteous Salesman and capable Dispenser; keen and energetic. Evans, 3 Godfrey Road, Newport.

**Q**UALIFIED Manager or Assistant (30); 8 years' sole charge; splendid Window-dresser and expert knowledge of Photography; Yorkshire preferred. L., 57 Reginald Terrace, Leeds.

**Q**UALIFIED (30); good experience, conscientious, abstainer; highest references; South preferred. "R. N. S.," 9 St. James Park, West Croydon.

**Q**UALIFIED; disengaged; age 32; married; two children; Locum or permanency. "P.," 74 Whitfield Avenue, Newcastle, Staffs.

**Q**UALIFIED Chemist and Optician; Locum or temporary; 23; experienced; highly recommended; free. Raphael, 71 Windsor Road, Forest Gate, E.7.

**Q**UALIFIED; disengaged; 50; single; City or country. "Chemist," 23 Wellclose Mount, Leeds.

**Q**UALIFIED; age 25; tall; good address; 8 years' good middle and high-class experience, Dispensing, Counter and Windows; position required as Manager or Assistant in good-class Pharmacy, early in October; London or S.E. Counties. Apply "Clabiceps," 54/38, Office of this Paper.

**Q**UALIFIED, 34, good experience in Retail, Dispensing, Photographic, Optics, as Manager or Senior in good-class business. "Yorkshireman," 55/6, Office of this Paper.

**Q**UALIFIED, pre-war; 33; married; Photographic, Optics (taking S.M.C. final November), Window-dresser, Prescriber and Salesman; French linguist; 17 years' experience, West-End, suburbs and provinces; South London; easy hours. 54/12, Office of this Paper.

**Q**UALIFIED, 37, single, experienced, 12 years' London experience, requires position as Manager. 53/20, Office of this Paper.

**S**ENIOR Assistant; 48; disengaged; long experience, Dispensing and Salesmanship. Collins, 101 Sulgrave Road, Hammersmith, W.6.

**S**ENIOR or Manager; thoroughly competent; smart appearance and address; good reference; disengaged shortly. "Chemicus," The Chymes, Ham Road, Worthing.

**T**WO qualified Managers desire change; experienced in all branches; highest references (South Wales preferred). Apply "Duo," 54/26, Office of this Paper.

**U**NQUALIFIED; 28 years' (London and country) all-round experience; middle-aged; active; good credentials. "Beta," 52/50, Office of this Paper.

**U**NQUALIFIED Manager or Locum; Dispensing, Counter, Photography, etc.; good references; disengaged. Apply "Knta," 272 Merton Road, Southfields, S.W.18.

**U**NQUALIFIED Assistant desires position, London (district of Baker Street), if possible; wide Store experience, Windows, Counter, Photo, etc.; married; age 32; height 5 ft. 6½ in. 53/24, Office of this Paper.

**W**EST-END OR CITY.—Qualified; age 25; 11 years' first-class experience, including 5 years West-End; highest references; willing, competent, and energetic worker; disengaged October 3. 53/13, Office of this Paper.

**Y**OUNG Scotchman (20) could start as Junior or Improver immediately with Pharmacy, S.W. preferred, offering sound Dispensing experience. McClymont, Craig Cottage, Kirkcovan, Wigtownshire.

**Y**OUNG Lady (Hall), with 4 years' Chemist shop and Hospital experience, requires post as Dispenser to Doctor, Institution, or Chemist; good knowledge of Counter work if latter; Bath or Bristol district. 51/31, Office of this Paper.

**Y**OUNG lady, 20, requires situation as Counter Assistant; Windows and Stock; 3 years' experience; knowledge of Photography. M. Millham, "Newhaven," Jemmett Road, Ashford, Kent.



**YOUNG** lady (Minor), capable Dispenser, good all-round experience, desires post in good-class Pharmacy. Apply M. G. Lane, 35 Cranmore Road, Wolverhampton.

**£4 PER WEEK.**—Young, qualified; quick and accurate Dispenser, energetic Counterwoman, excellent Window-dresser; smart appearance; managerial position optional; London preferred. 53/12, Office of this Paper.

### WHOLESALE.

#### TO WHOLESALE.

**ADVERTISER**, well known in the Drug and Allied Trades, is desirous of representing Wholesale House (London or S. and S.W. England preferred); some years' successful experience, with a sound and reliable connection; commissions considered. 53/17, Office of this Paper.

**B.Sc.** (Lond.), Hon. Chem., A.R.C.S.; 2 years' research experience; 26; single; moderate salary to commence; will go abroad. M.L. 2469/24, Office of this Paper.

**B.Sc.** (Hons. Chem.), 26, educated Public School, University, desires post in works on Research, Plant or Analytical; good knowledge Chemistry Physics, French, German, Book-keeping. M.L. 4467/22, Office of this Paper.

**CHEMIST**, long Retail experience, desires post as Representative; salary, expenses, and commission basis; has travelled previously, calling on Chemists, Doctors and other professional men. Please apply "Voyageur," 23 Broadley Terrace, Marylebone, N.W.1.

**COMMERCIAL Traveller**; age 25; single; 3 years' war service; educated Public School; has also good experience as Representative, Chemists' Sundries; willing to take any post. M.L. 3985/23, Office of this Paper.

**DRUGGISTS' SUNDRIES.**—Representative, 29; 7 years' war service; sound experience as representative; has good connection London and provinces; willing to take any post. M.L. 7843/21, Office of this Paper.

**OIL** Chemist, 28, 4 years' war service, M.C., B.Sc. (Hons. Chemistry), A.R.C.S., A.I.C., good technical French, experienced Laboratory Chemist, Oilfields, 12 months' experience research work Oil Technology Department, is willing to take any post in keeping with qualifications. M.L. 44162, Office of this Paper.

**REPRESENTATIVE**, live connection in London and Suburbs Doctors and Chemists, to represent reputable firm; only those well-known to trade entertained. "Medicus," 50/14, Office of this Paper.

**REPRESENTATIVE** open for engagement; offers valuable and live personal connection, extending over many years, throughout Lancashire, Cheshire, North Wales, Isle of Man. Woodward, 35 Brownhill Road, Blackburn, Lancs.

**REPRESENTATIVE**; Drug House, Speciality; energetic; smart; good appearance, address, connection; expenses, commission. "Chemicus," 162 Lloyd Street, Greenheys, Manchester.

**REPRESENTATIVE**, with valuable Pharmacy and Optical connection, Sussex and Kent, seeks live opportunity. "Legate," 54/19, Office of this Paper.

**SMART**, qualified man, 49, hard worker and invariably successful, leaving retail, is open to represent good house on salary and commission; own car. Apply 46/8, Office of this Paper.

**WORKS** Chemist, B.Sc. Technology (Manchester), 26, single; French and German; 2 years' experience as Assistant to Pharmacists; willing to take any post. M.L. 5800/23, Office of this Paper.

**YOUNG** man, well educated, four years' good-class Retail experience, requires to be trained as a Representative with a reliable firm of Chemists' Sundriesmen or of Toilet Requisites. Any offers should be addressed to M. E. Askew, c/o Hunt & Co., Winchester, Hants.

### [COLONIAL, INDIAN AND FOREIGN.]

**M.P.S.**, 34, wide experience, highest references, 10 years in that country after six months' absence; Managership with view to succession entertained; working knowledge of S.A. Dutch; well up in Photographics; some knowledge Optics and French; at present managing International Pharmacy in the West-End; free middle of October. Write, giving full particulars and salary offered, to 52/572, Office of this Paper.

### ALL PUBLIC PHARMACISTS

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(incorporating the National Association of Chemists' Assistants)

**BENEFITS:** Trade Protection—Legal Aid—Unemployment Benefit—Free Use of Employment Bureau.

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2—year

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**21/-**

4—year

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**SECOND-HAND CHEMISTS' FITTINGS.**—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.2.

**CHEMISTS' Fittings** (second-hand).—Ranges of Drug Drawers, Shelving, All Glass Counters, Centre Cases, Window Fittings of all descriptions. D. MATTHEWS & SON, Chemist Fitters, 14/16, Manchester Street, Liverpool.

**ADVERTISER** can purchase in bulk regular quantities of Perfumery, soluble in water, also other Perfumery Novelties; prices and quality must be right. Samples and particulars, "M. B.," 57 The Crescent, Watsons Road, Blackpool.

**LIMITED** Companies formed not only for Chemists and Opticians, but for any trade. Established 1905. Books, seal, etc., are included in quotation. Advice free. A. B. SLACK, 15 Christ Church Avenue, West Didsbury, Manchester.

**STOCKTAKING SALE.**—About 10 cwt. pure powdered Rice Starch, ditto pure powdered Wheaten Starch, ditto Sugar Candy; Spanish B.P. Olive Oil, tins, in cases; Italian Flask Oil; pure Food Gelatines, leaf and powder; White Marseilles Soap, 72%, 18 cwt., bars; Italian Green Olive Oil Soap, bars, 2 tons; pure Food Casein, about 2 cwt.; 10 cwt. Ultra Blue. 50/7, Office of this Paper.

**£144.**—SET of complete mahogany Shop Fittings, 7 ft. hand-some Dispensing Screen, 7 ft. Wall Case, 12 ft. Counter with cases in front, plate-glass Counter Case, two nests of Counter Drawers, 12 ft. Drug Fitting, Perfume Case and Desk, all-glass Counter; can easily be adapted. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.1.

### EXCHANGE COLUMN.

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#### FOR DISPOSAL.

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